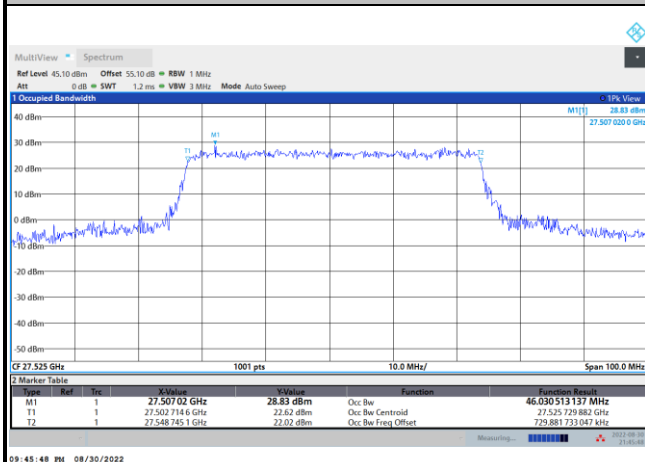




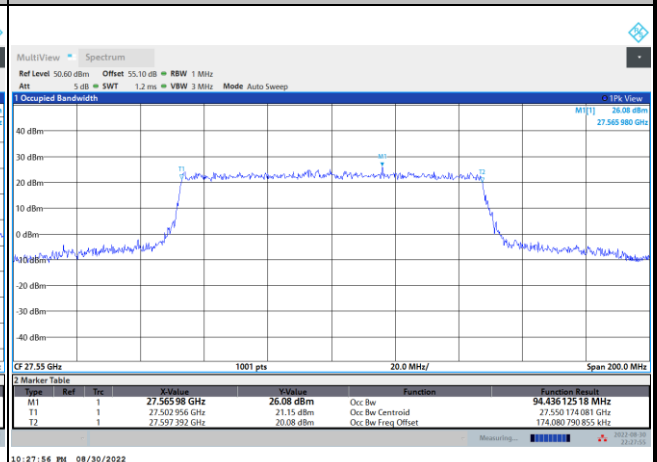
CP-OFDM Module A

NR Band n261

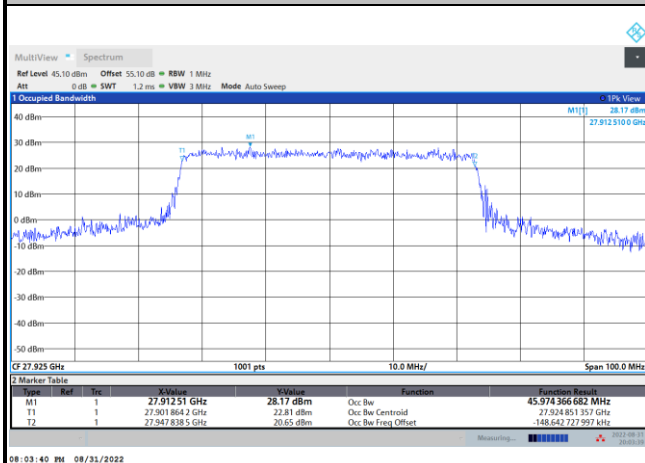
Lowest Channel / 50MHz / QPSK



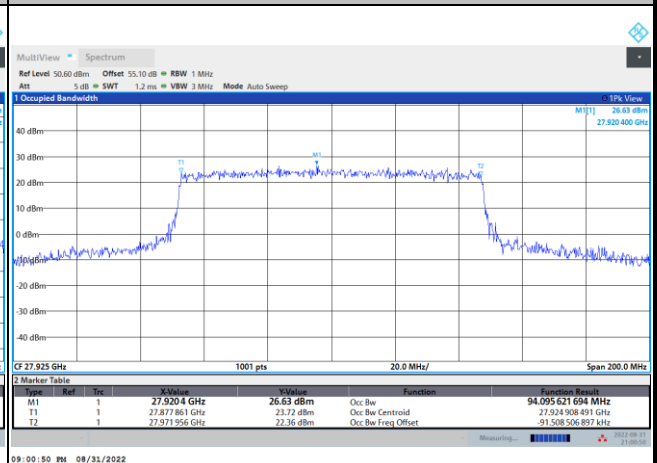
Lowest Channel / 100MHz / QPSK



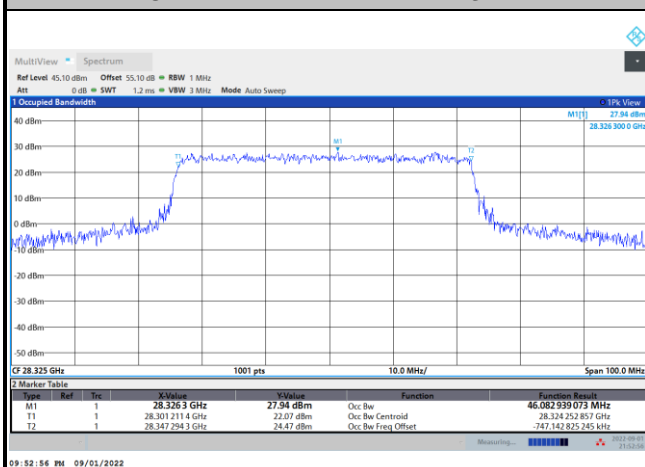
Middle Channel / 50MHz / QPSK



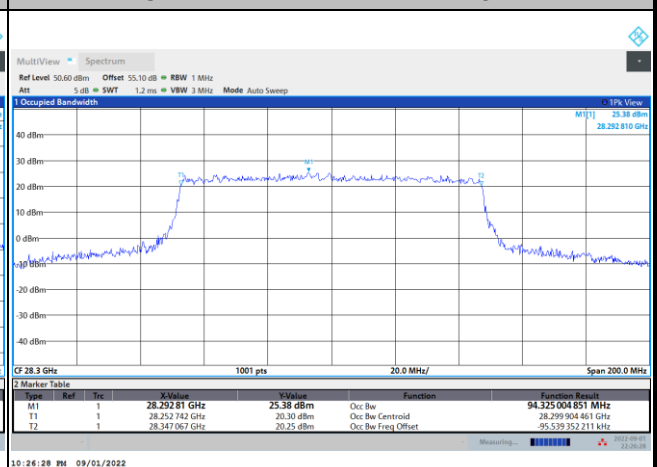
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

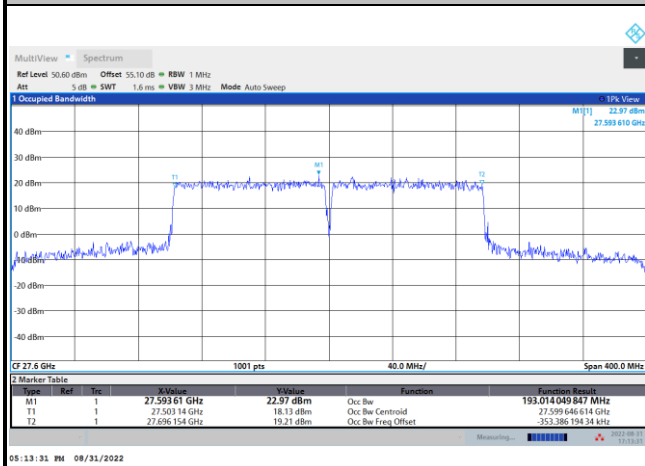




CP-OFDM Module A

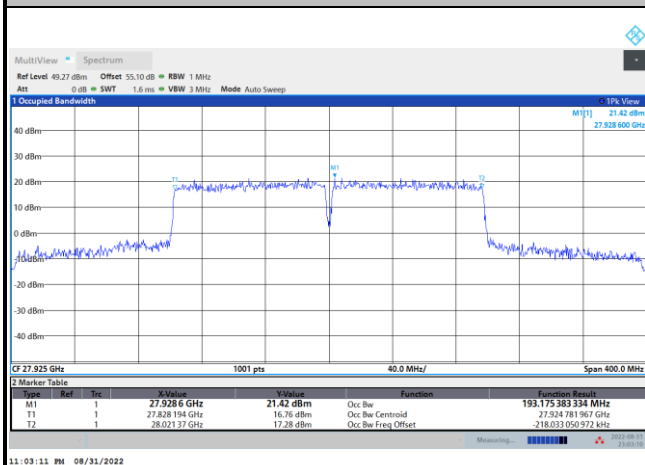
NR Band n261

Lowest Channel / 200MHz / QPSK



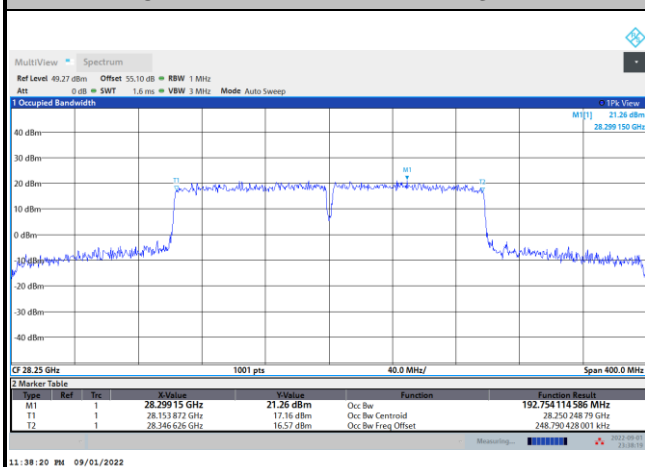
intentionally blank

Middle Channel / 200MHz / QPSK



intentionally blank

Highest Channel / 200MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-5.13	-5.64	-6.12	-5.14	-6.12	-7.84	-13.25	-10.11	-12.89
	>10%OB	≤-13	-20.77	-23.73	-25.65	-22.18	-25.76	-23.05	-14.73	-14.35	-15.42
High CH	0~10%OB	≤-5	-5.58	-5.74	-11.76	-5.77	-6.29	-10.49	-15.67	-15.61	-16.59
	>10%OB	≤-13	-16.58	-19.01	-18.62	-25.32	-25.41	-25.19	-18.62	-22.26	-23.33
Result			Compliance								

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB			
BW			50MHz	100MHz	200MHz	
Limit (dBm)			QPSK	QPSK	QPSK	
Low CH	0~10%OB	≧-5	-5.4	-5.86	-8.1	
	>10%OB	≧-13	-21.71	-25.87	-13.67	
High CH	0~10%OB	≧-5	-5.86	-6.26	-12.7	
	>10%OB	≧-13	-19.72	-25.27	-18	
Result			Compliance			

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-11.89	-14.54	-15.61	-14.55	-15.32	-16.99	-20.7	-19.63	-22.21
	>10%OB	≤-13	-19.97	-22.67	-27.88	-21.89	-25.23	-25.44	-25.25	-25.29	-26.65
High CH	0~10%OB	≤-5	-11.69	-13.77	-18.45	-17.79	-21.77	-22.98	-24.33	-27.71	-27.89
	>10%OB	≤-13	-21.73	-23.85	-29.11	-22.61	-25.27	-25.25	-28.47	-29.53	-29.58
Result			Compliance								

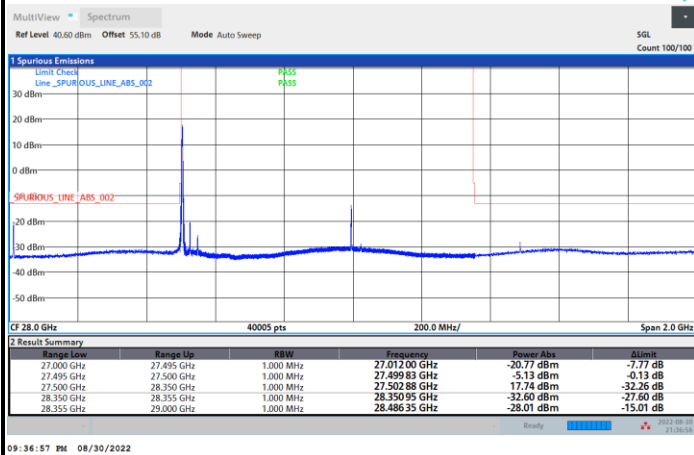
Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≧-5	-14.78	-16.18	-16.62
	>10%OB	≧-13	-19.08	-21.88	-19.54
High CH	0~10%OB	≧-5	-14.89	-16.07	-20.77
	>10%OB	≧-13	-21.58	-23.87	-23.33
Result			Compliance		



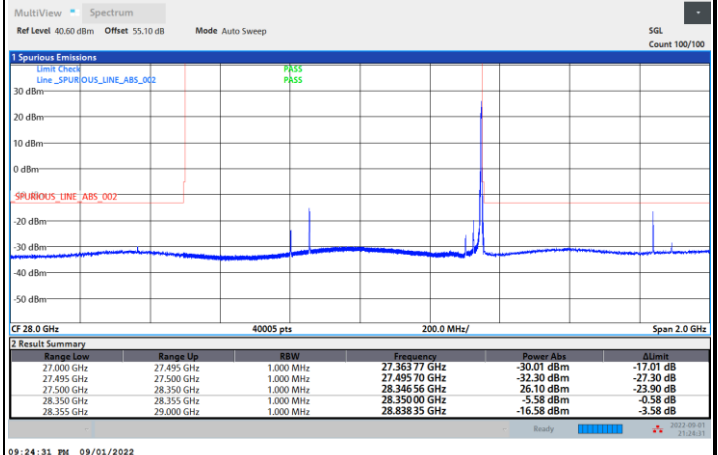
DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

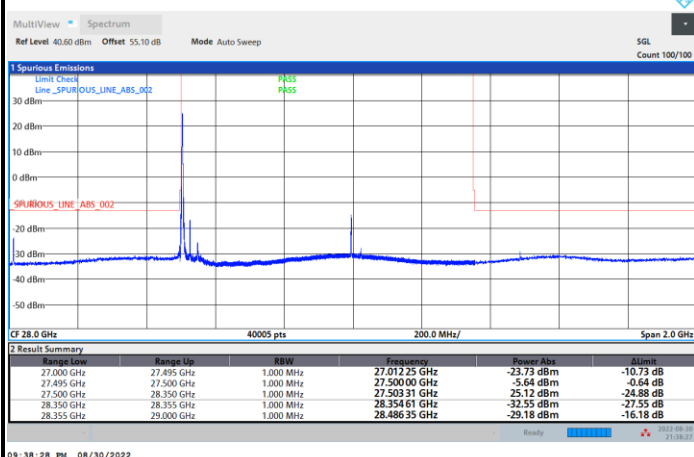


Highest Band Edge / 1 RB

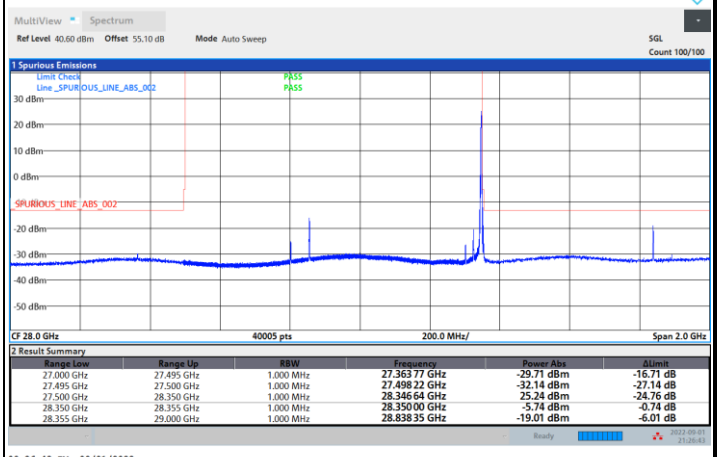


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

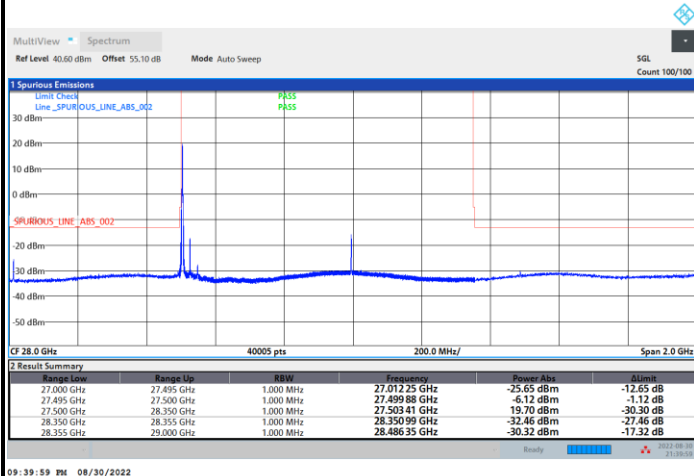




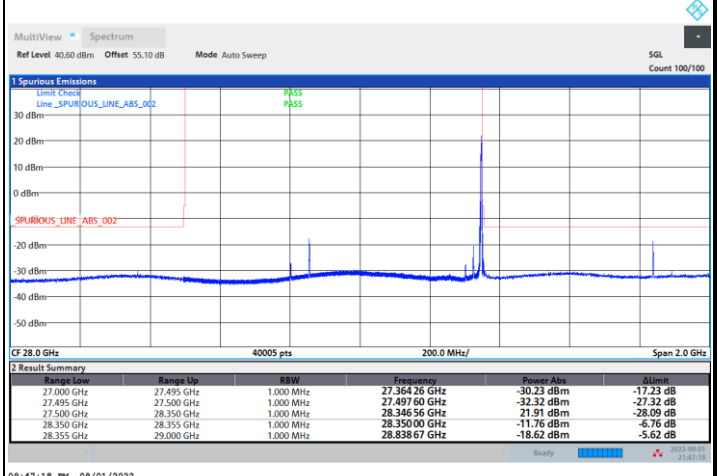
DFT-s-OFDM Module A

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

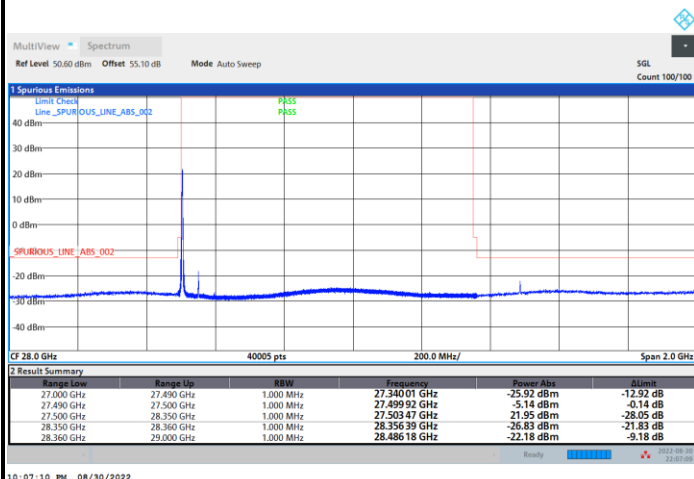


Highest Band Edge / 1 RB

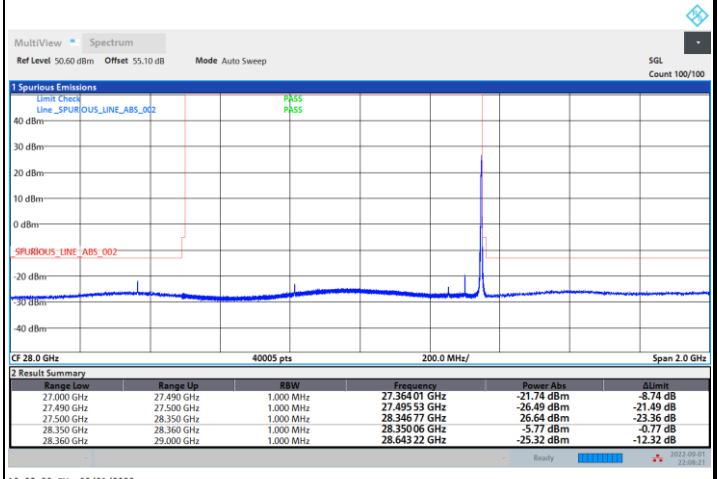


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

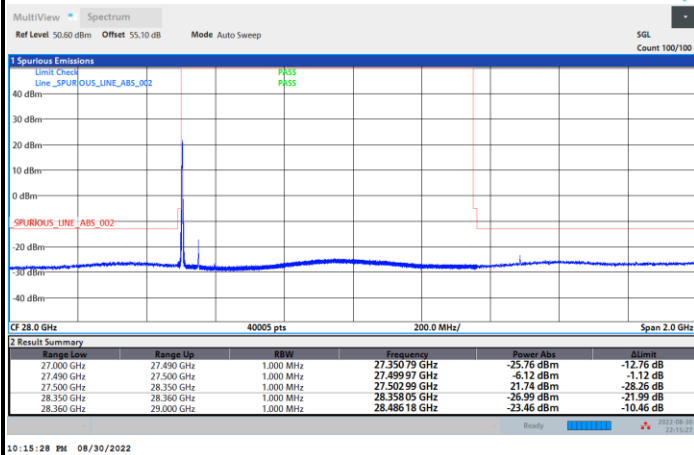




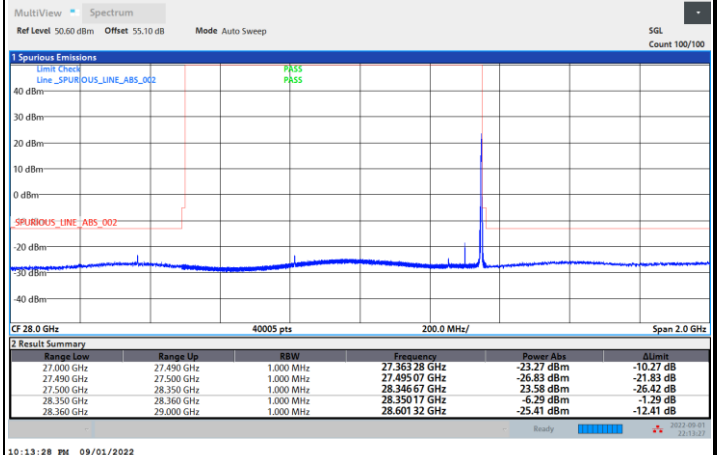
DFT-s-OFDM Module A

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

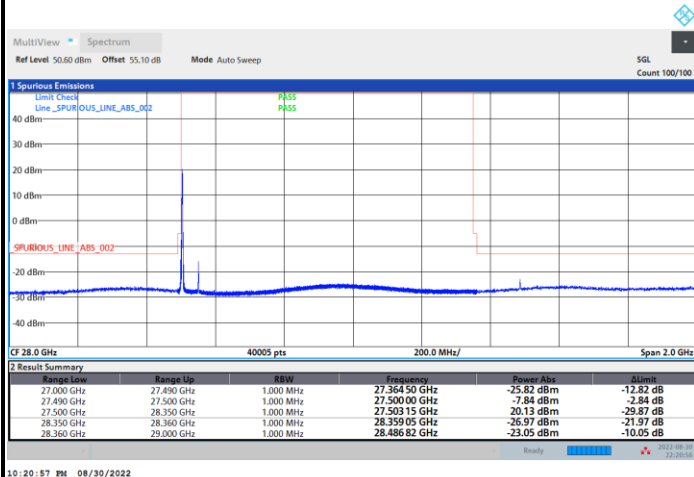


Highest Band Edge / 1 RB

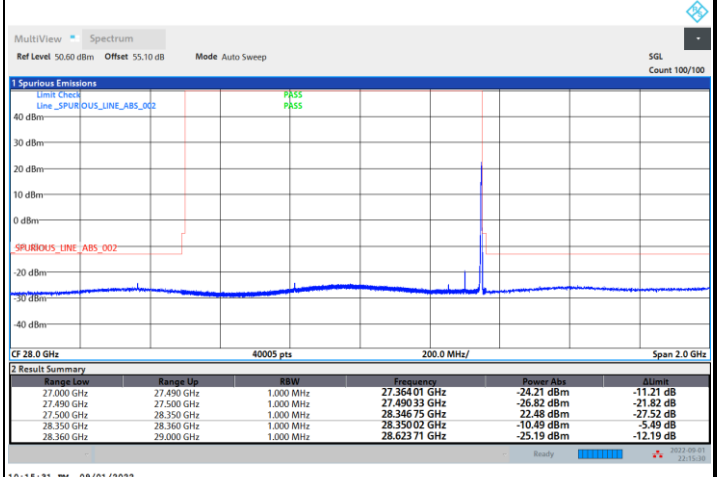


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

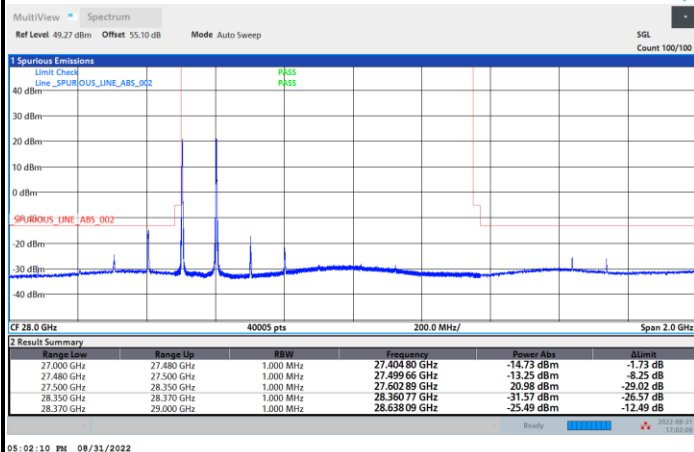




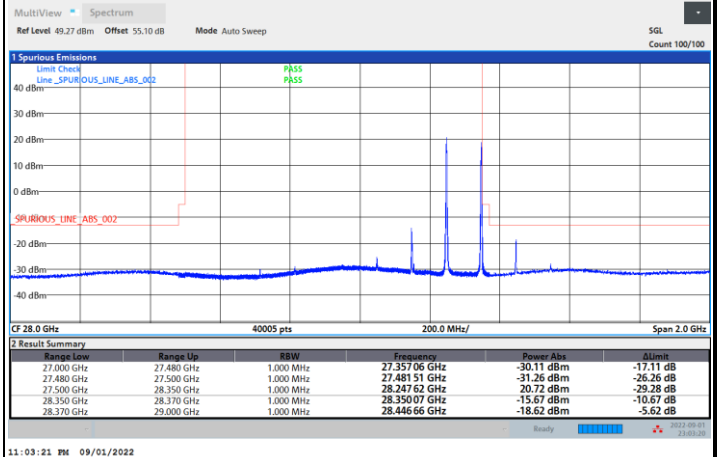
DFT-s-OFDM Module A

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

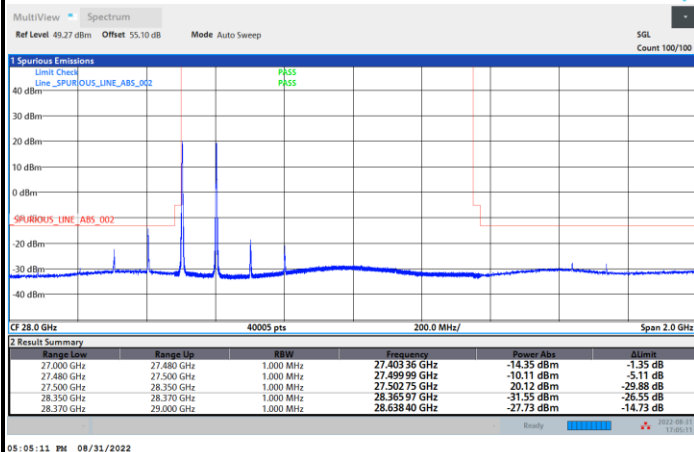


Highest Band Edge / 1 RB

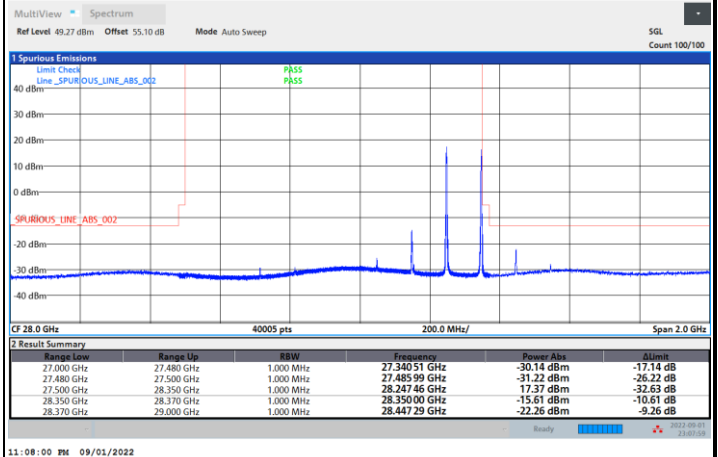


NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



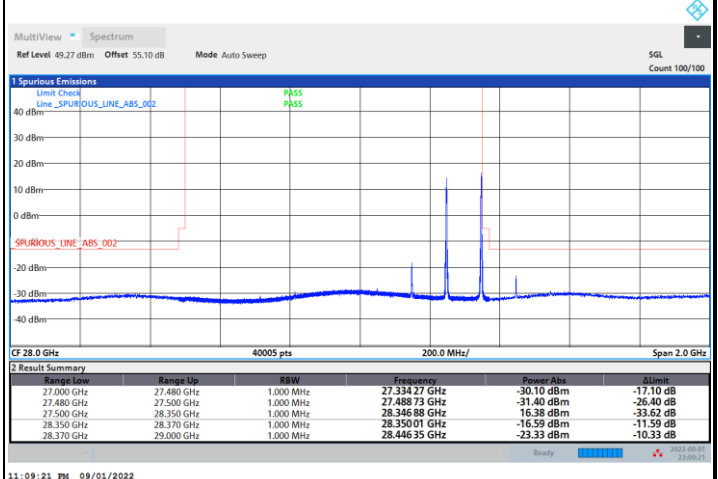
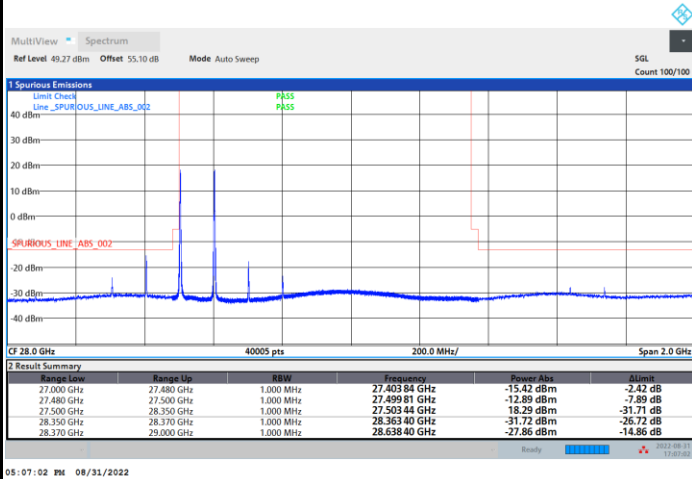


DFT-s-OFDM Module A

NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

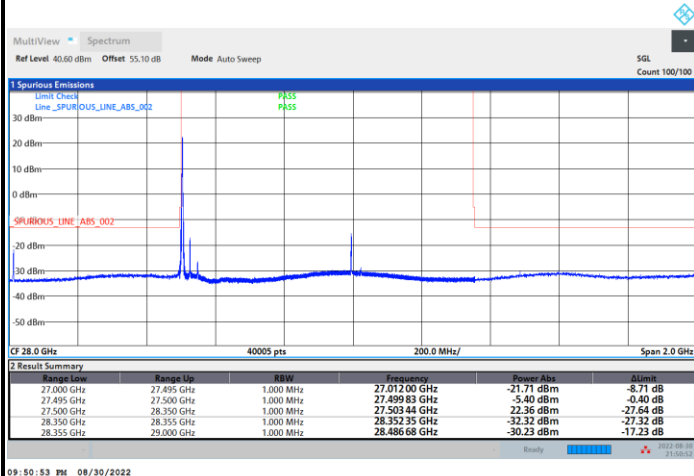




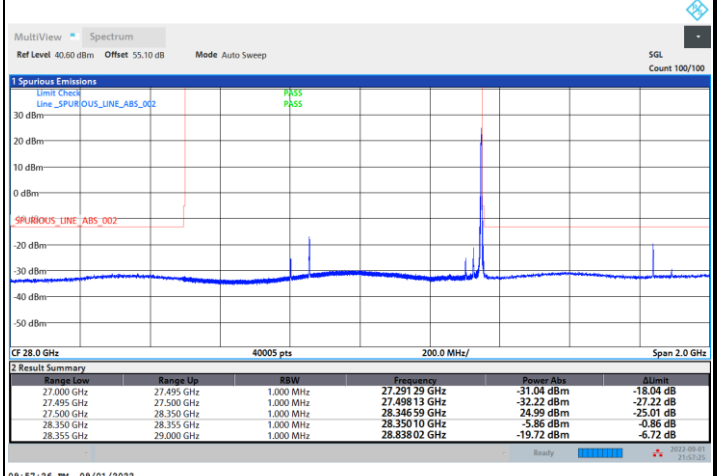
CP-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

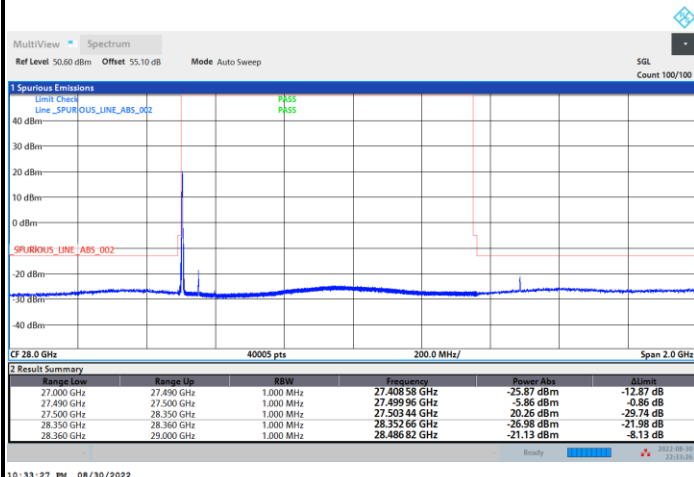


Highest Band Edge / 1 RB

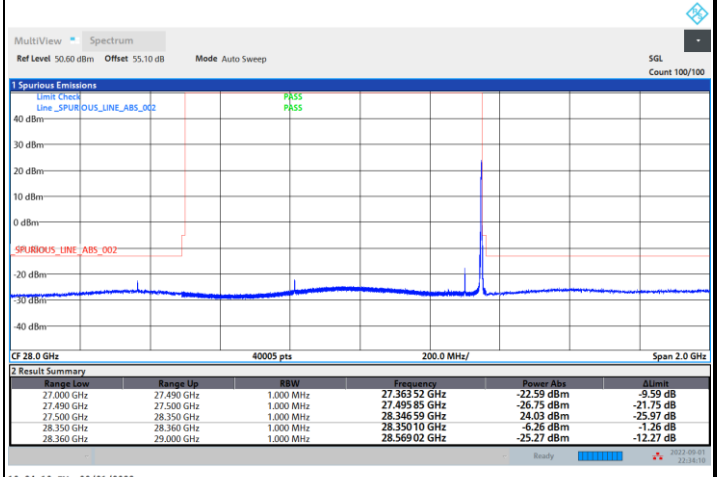


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

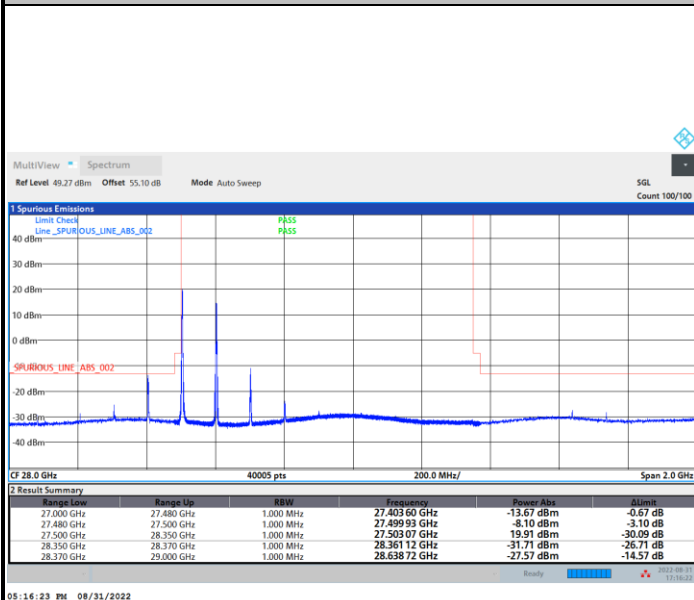




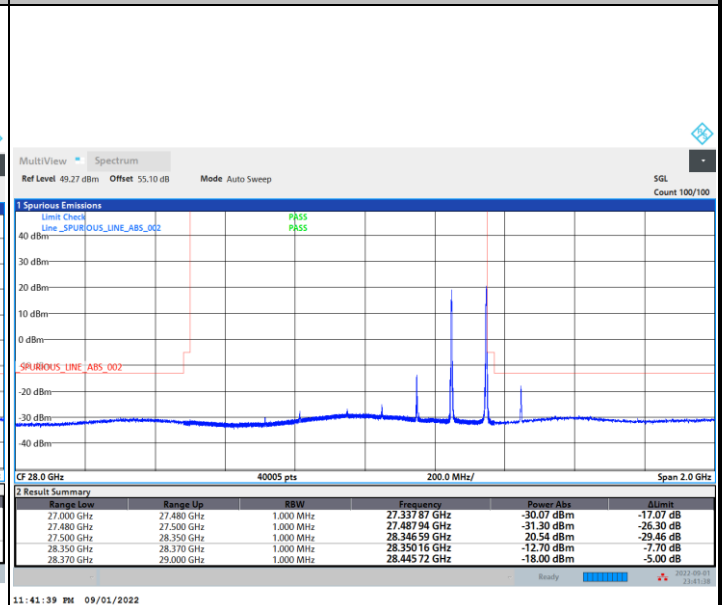
CP-OFDM Module A

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

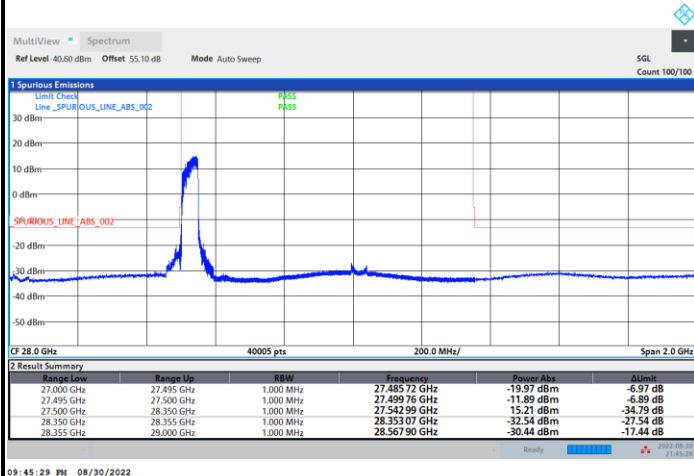




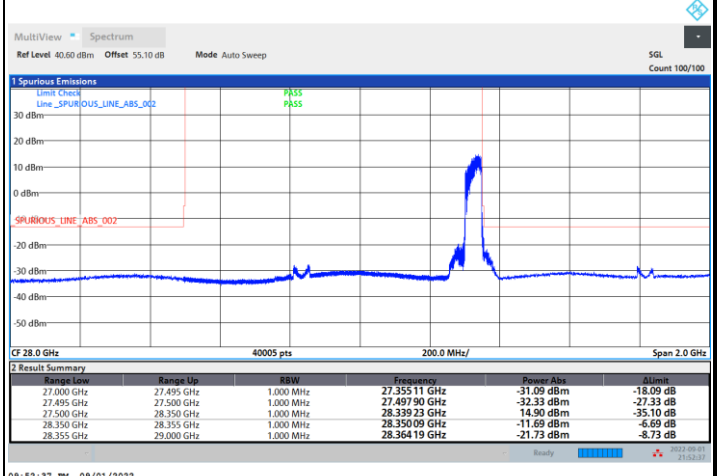
DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

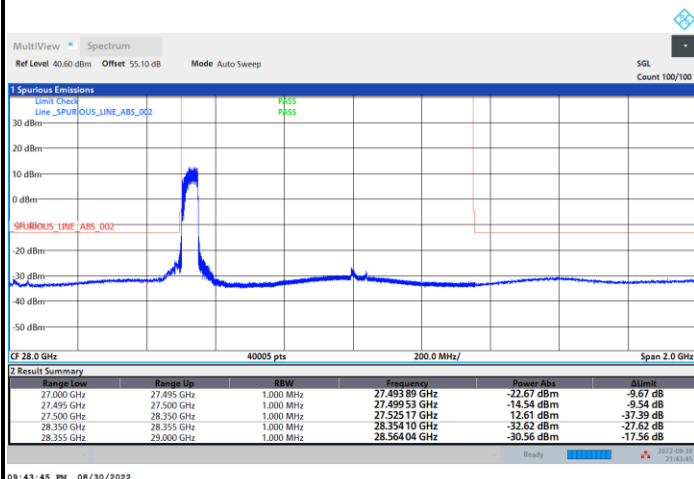


Highest Band Edge / Full RB

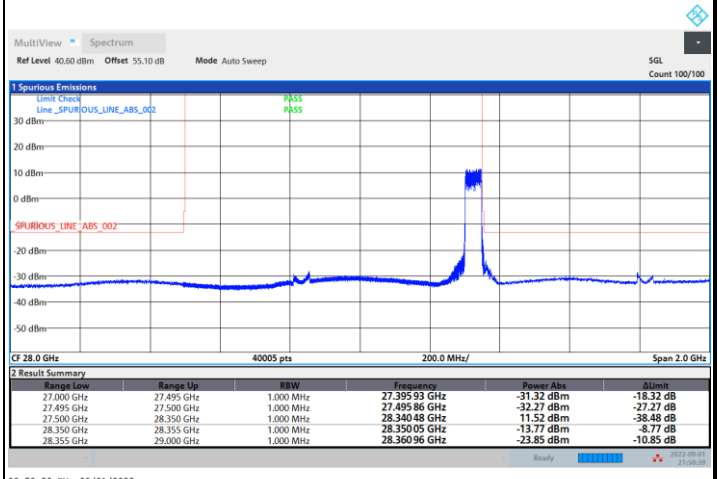


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

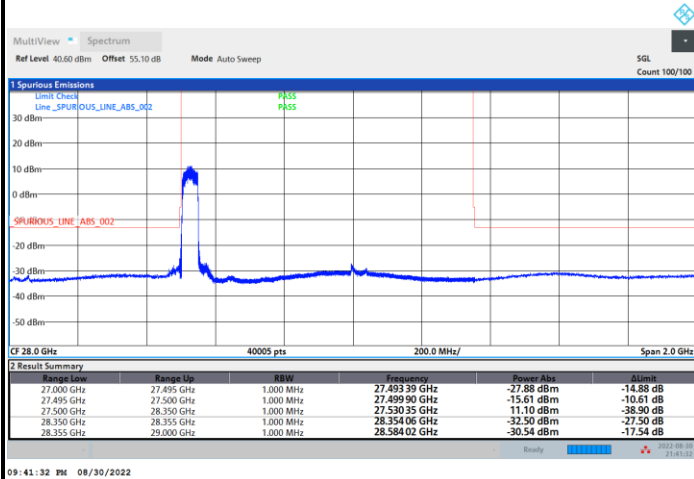




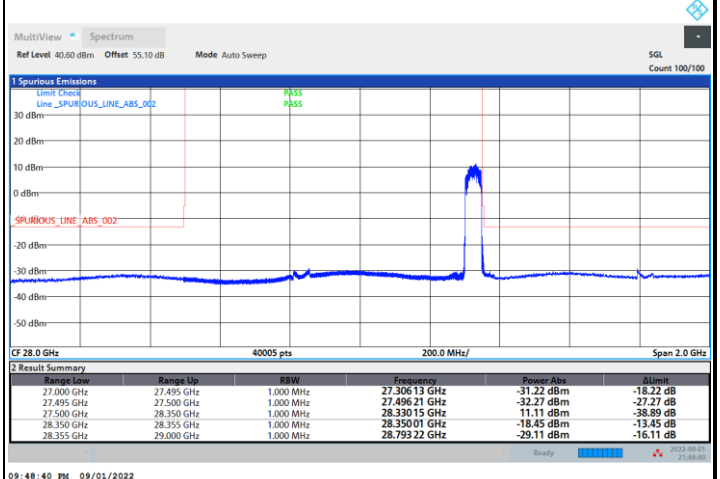
DFT-s-OFDM Module A

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB

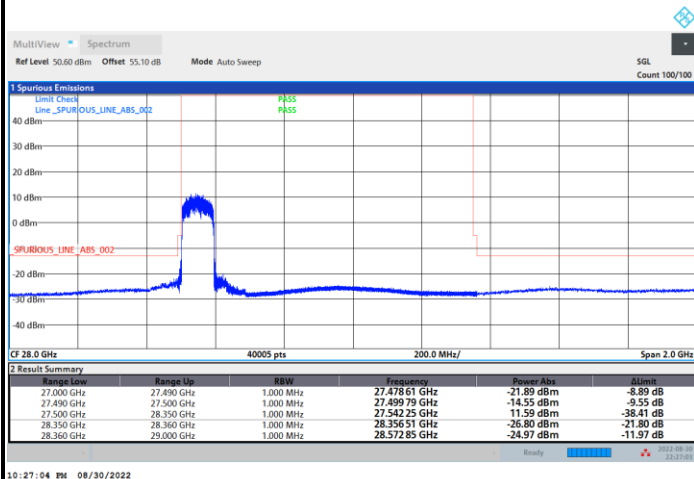


Highest Band Edge / Full RB

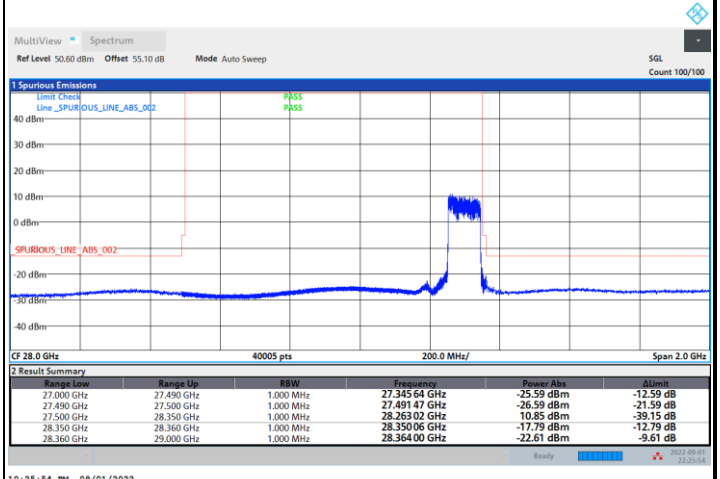


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

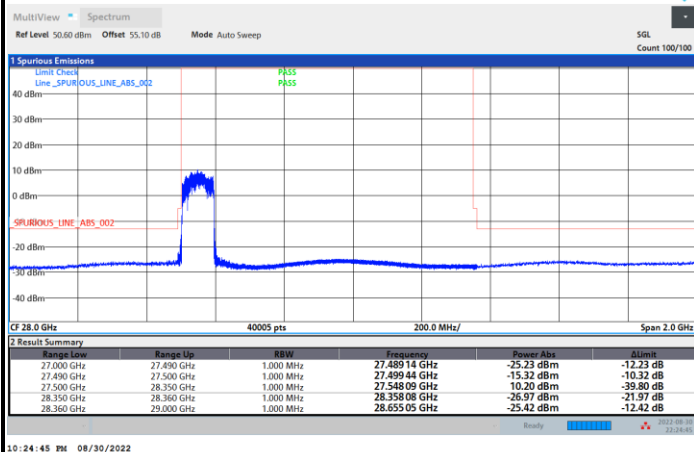




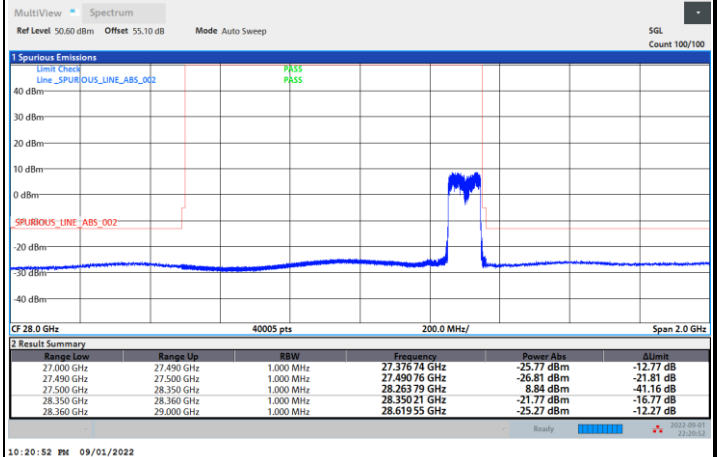
DFT-s-OFDM Module A

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

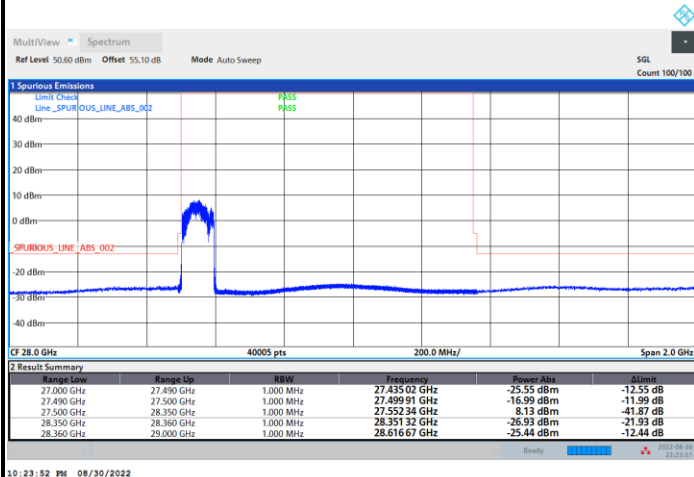


Highest Band Edge / Full RB

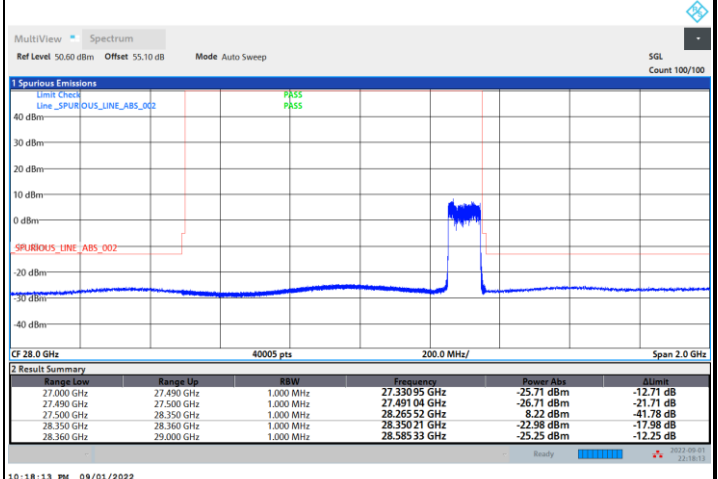


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

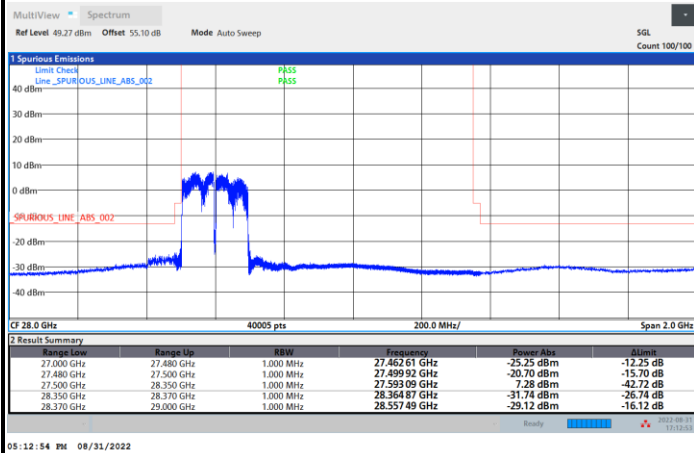




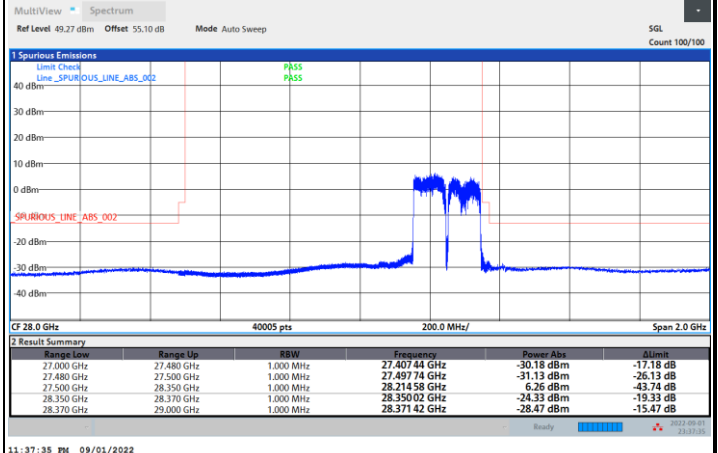
DFT-s-OFDM Module A

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

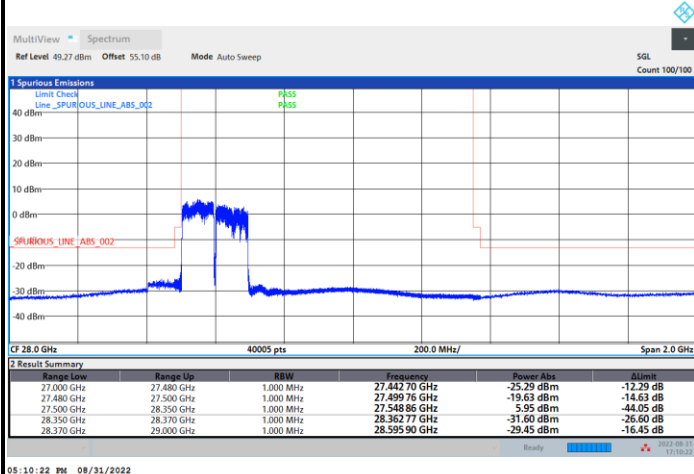


Highest Band Edge / Full RB

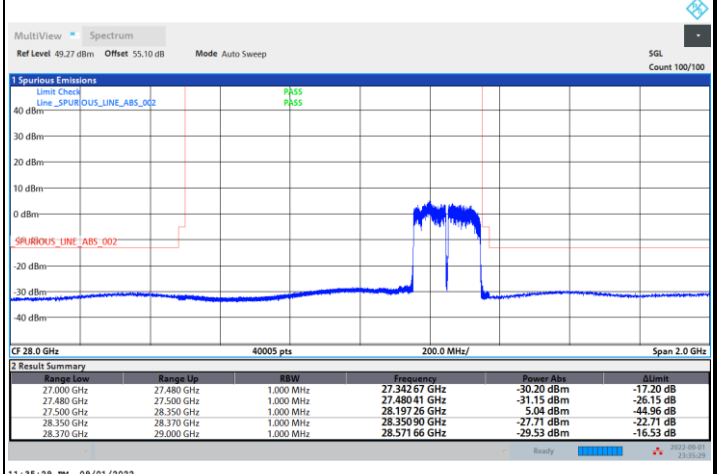


NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



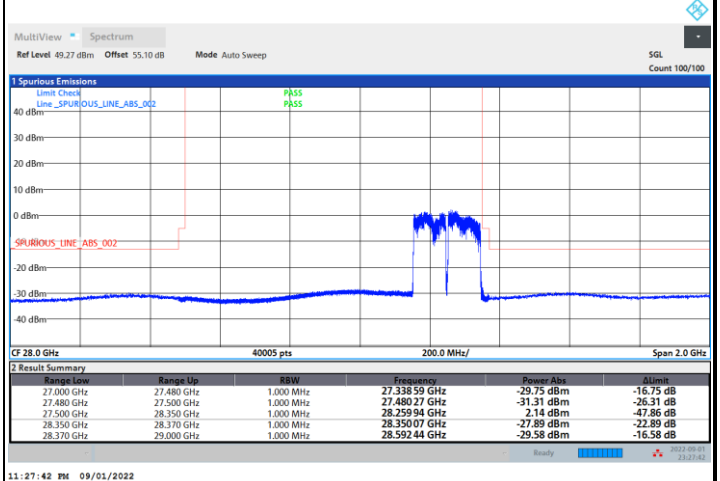
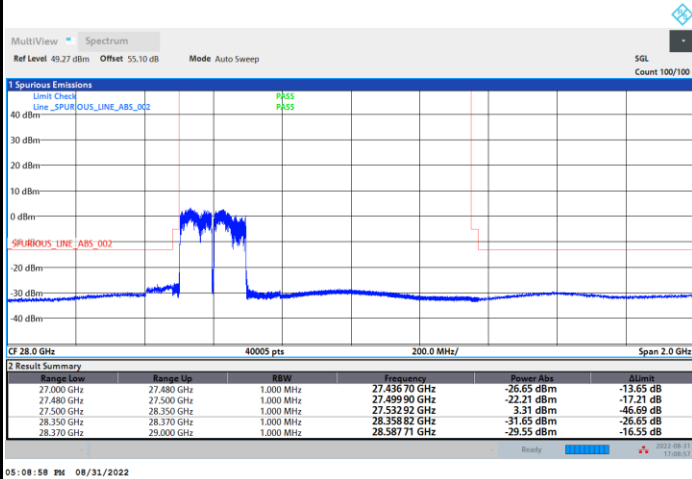


DFT-s-OFDM Module A

NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

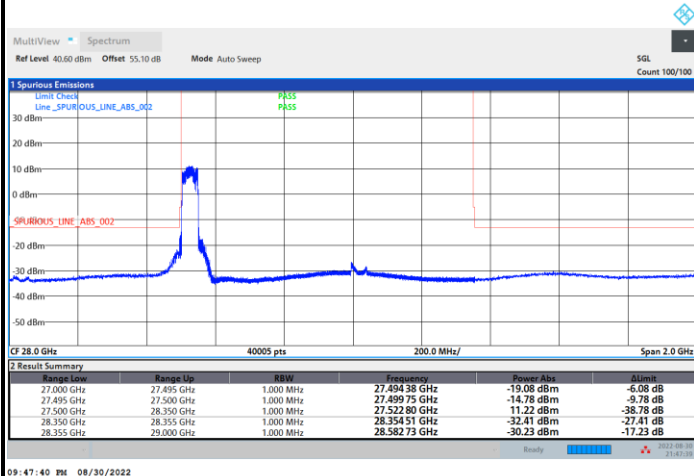




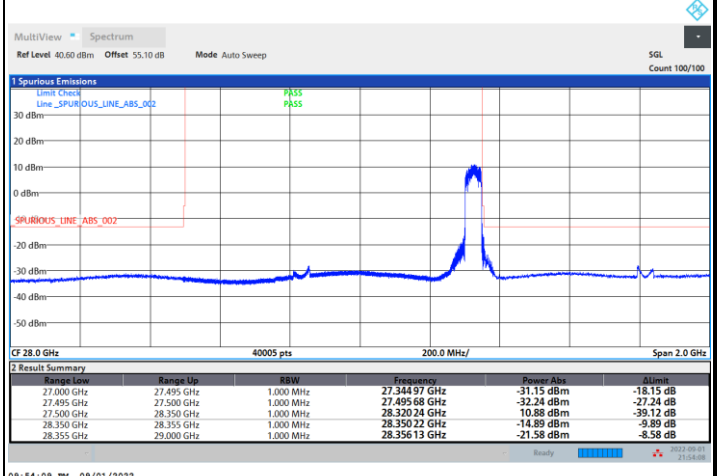
CP-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

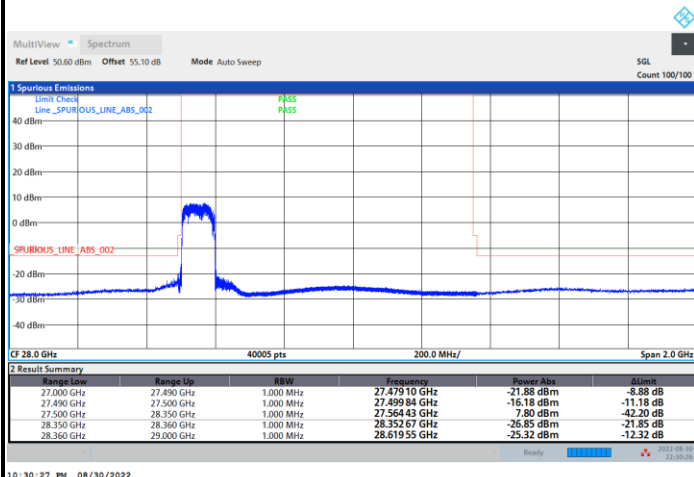


Highest Band Edge / Full RB

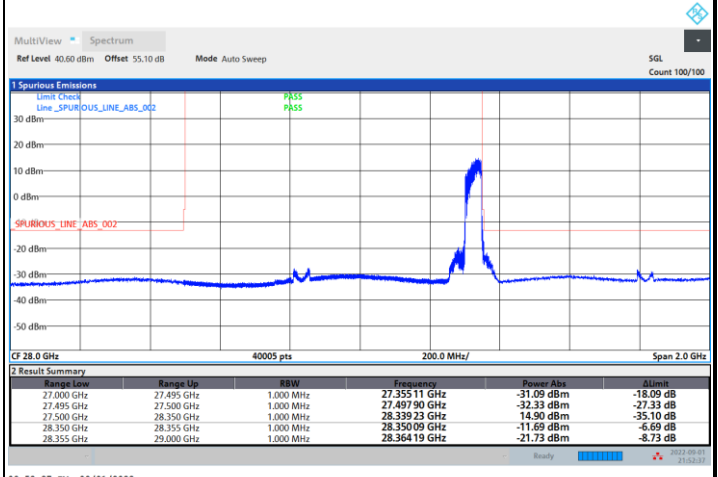


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



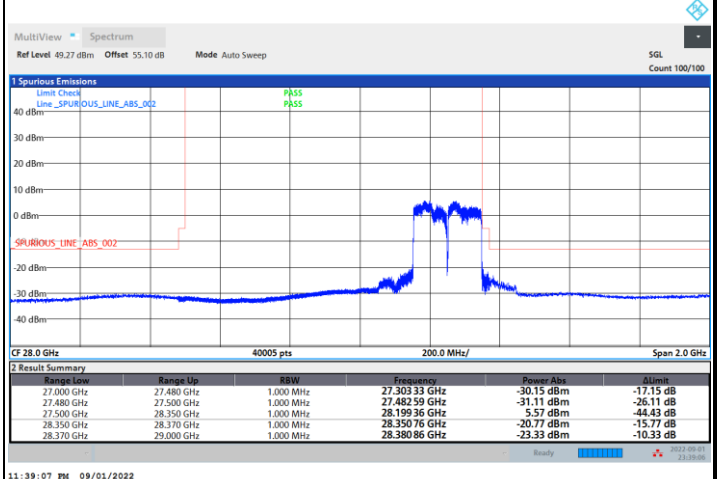
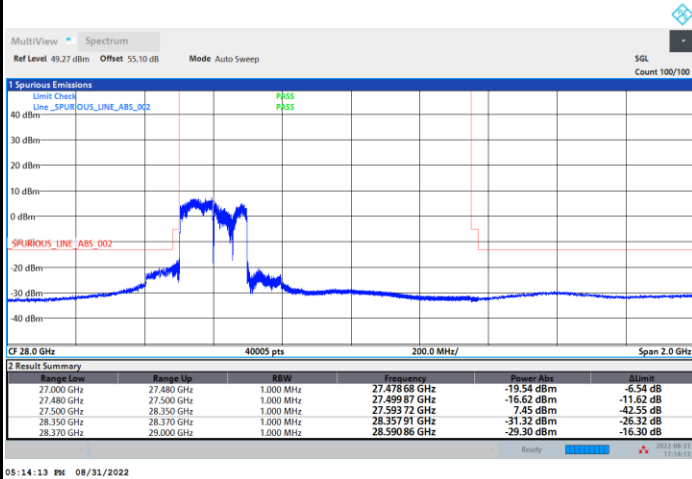


CP-OFDM Module A

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

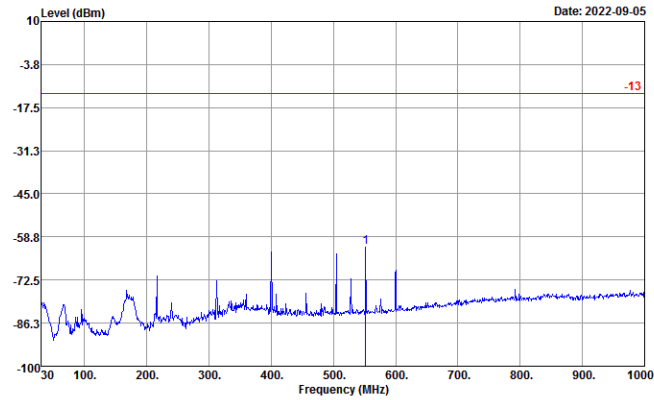




Spurious Emission

NR Band n261 (30MHz-1GHz)

Horizontal

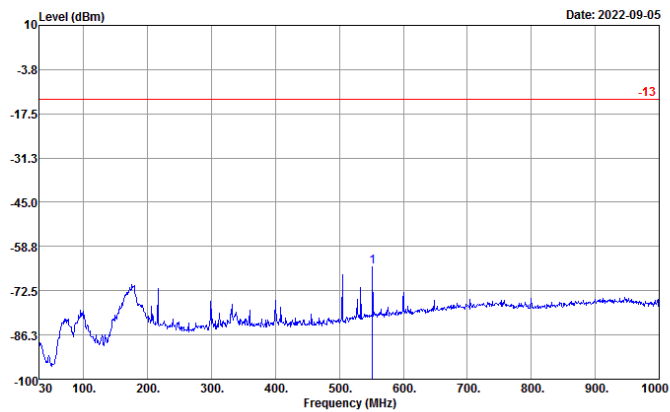


Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL

: n261 MA

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	A/Pos	T/Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1	551.86	-61.93	-48.93	-13.00	-63.52	1.59	---	---	Peak

Vertical



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL

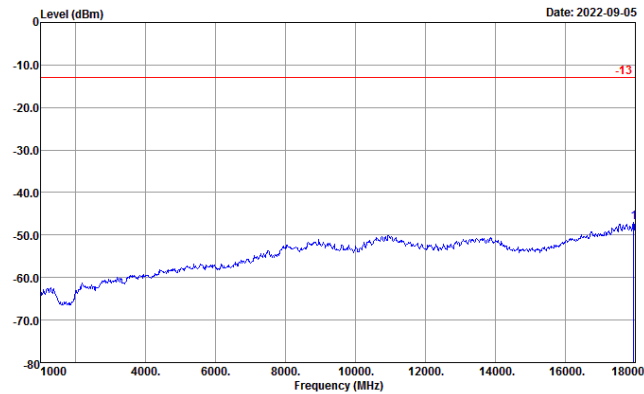
: n261 MA

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	A/Pos	T/Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1	551.86	-64.98	-51.98	-13.00	-69.29	4.31	---	---	Peak



NR Band n261 (1GHz-18GHz)

Horizontal

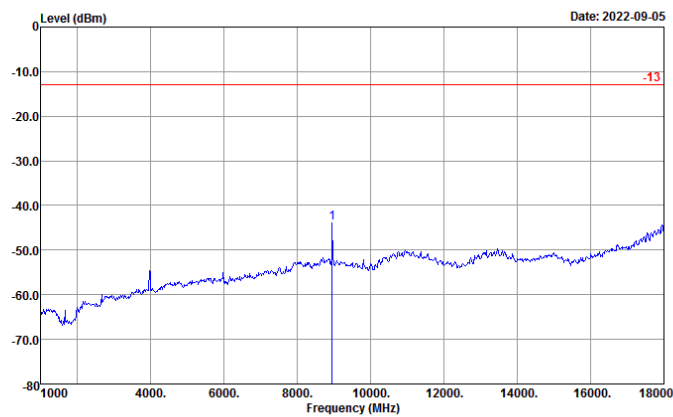


Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL

: n261 MA

Freq	Level	Over	Limit	Read	A/Pos	T/Pos	Remark
MHz	dBm	Limit	Line	Level	Factor	cm	deg
1	17949.00	-47.11	-34.11	-13.00	-61.28	14.17	---

Vertical



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL

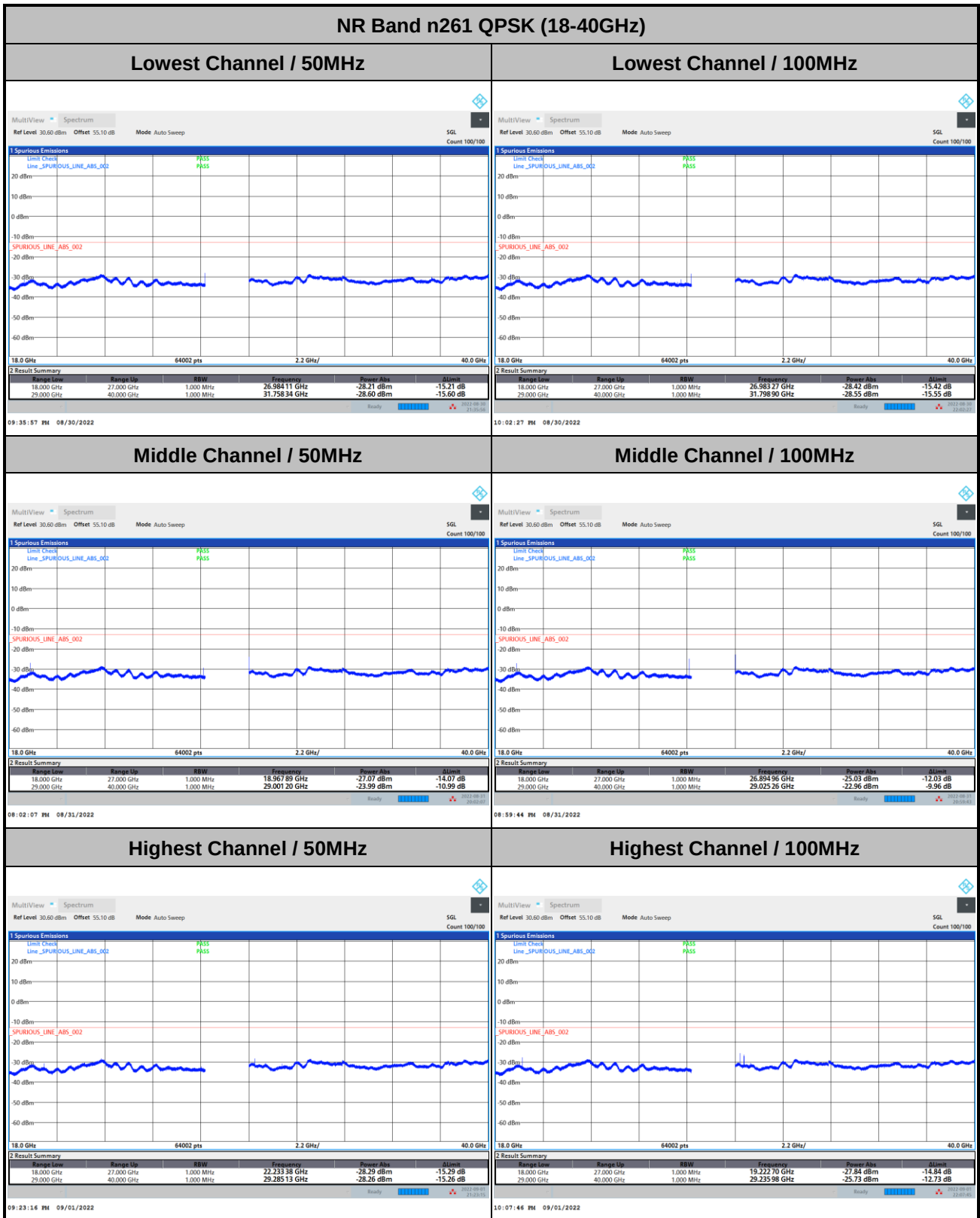
: n261 MA

Freq	Level	Over	Limit	Read	A/Pos	T/Pos	Remark
MHz	dBm	Limit	Line	Level	Factor	cm	deg
1	8956.00	-43.82	-30.82	-13.00	-43.75	-0.07	---



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

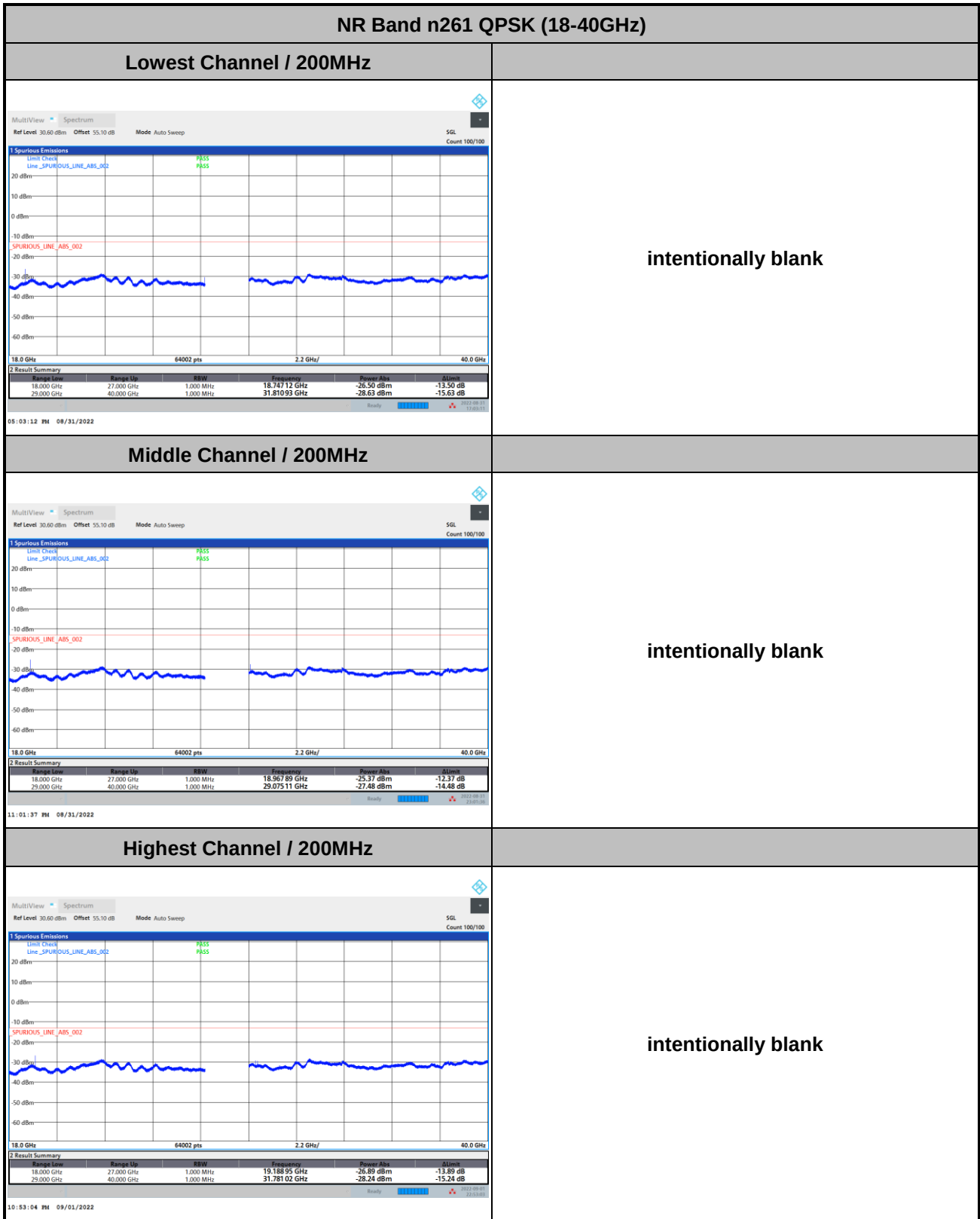
DFT-s-OFDM Module A



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



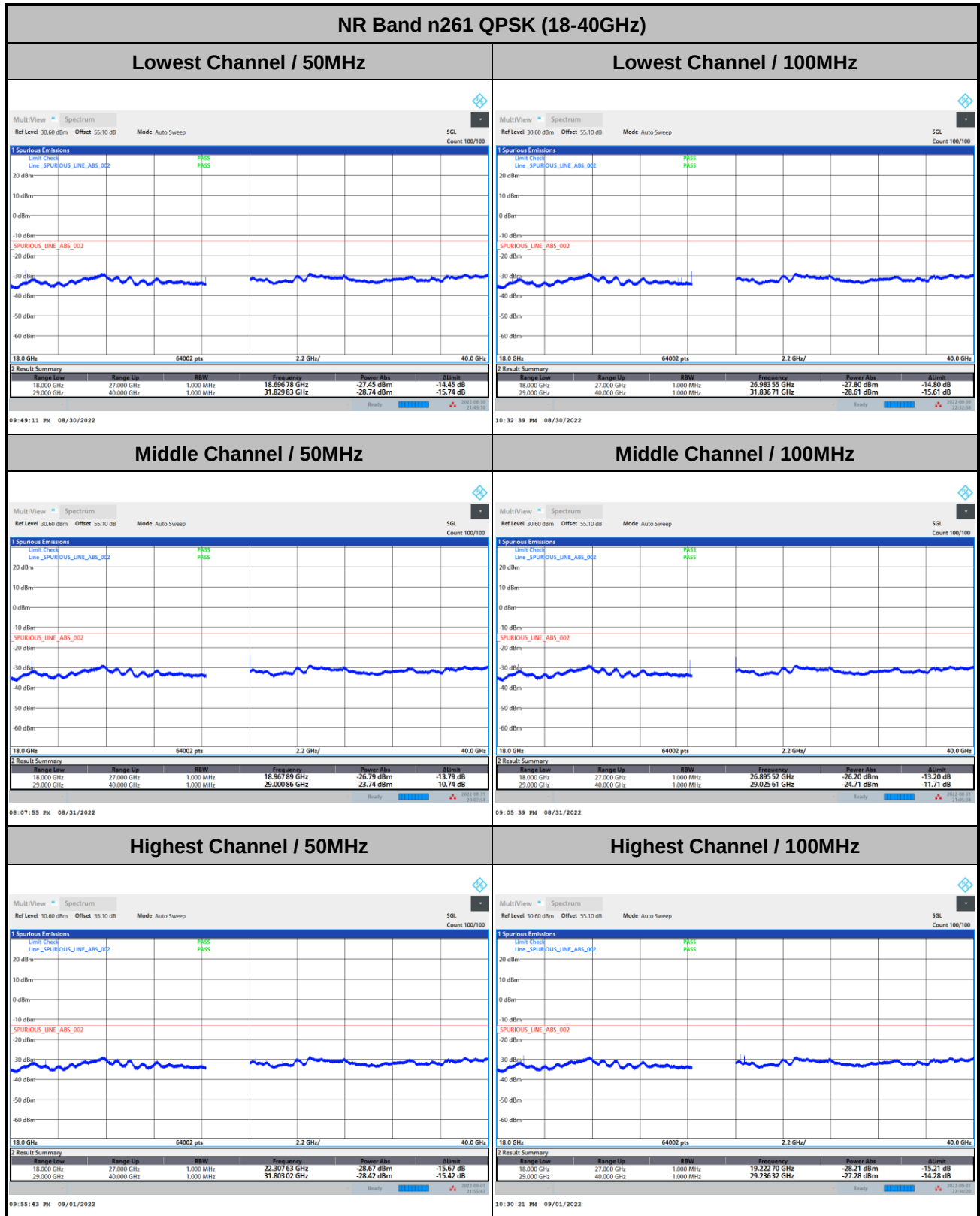
DFT-s-OFDM Module A



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



CP-OFDM Module A



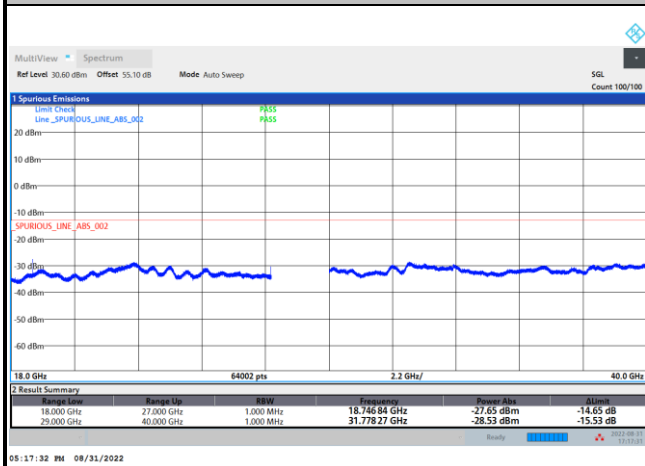
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module A

NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



intentionally blank

Middle Channel / 200MHz

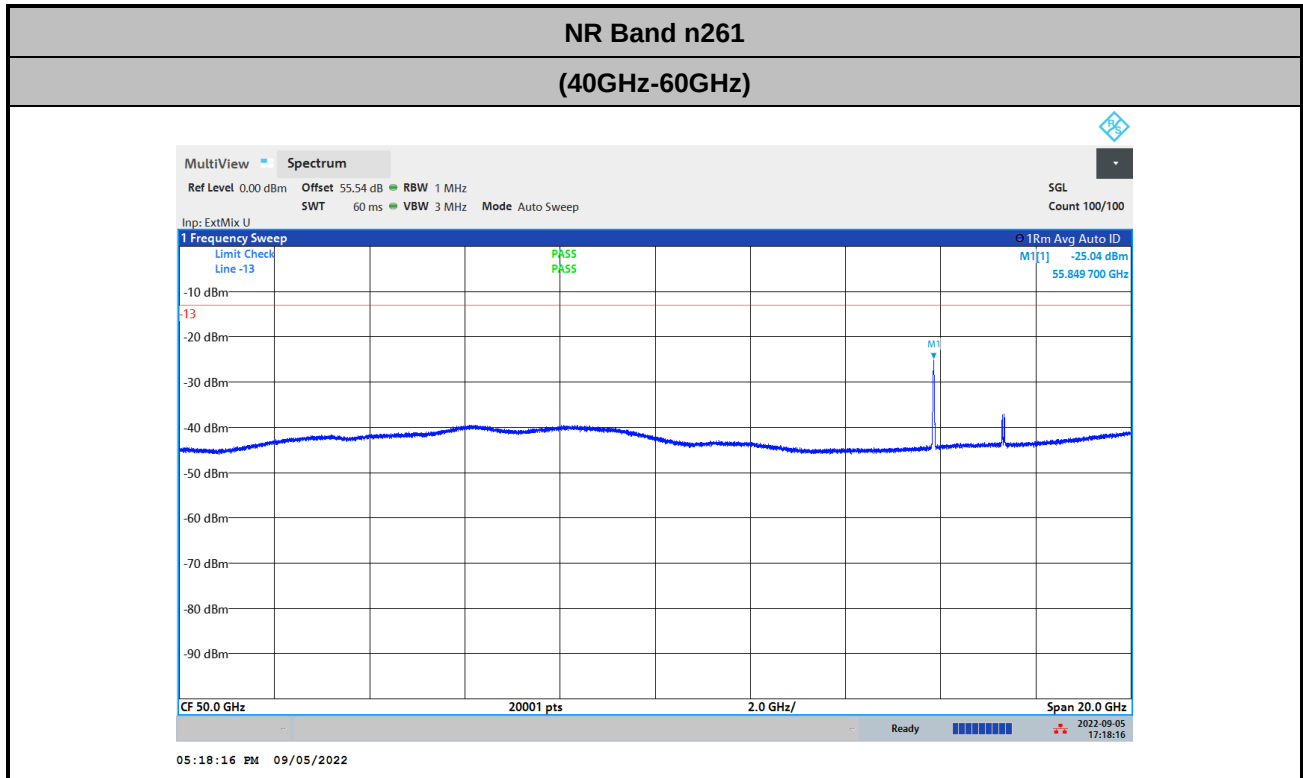


intentionally blank

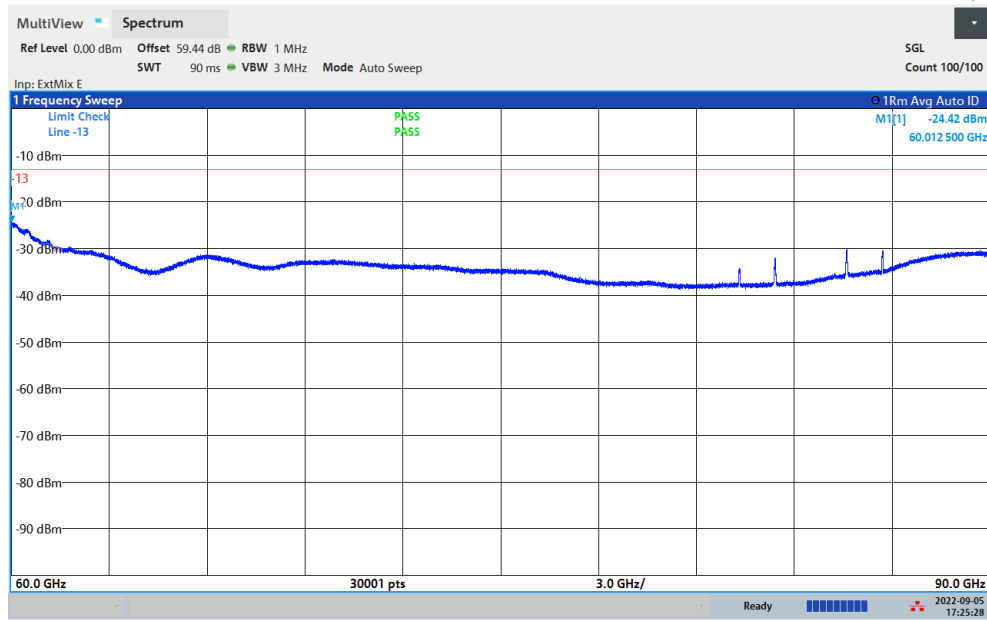
Highest Channel / 200MHz



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



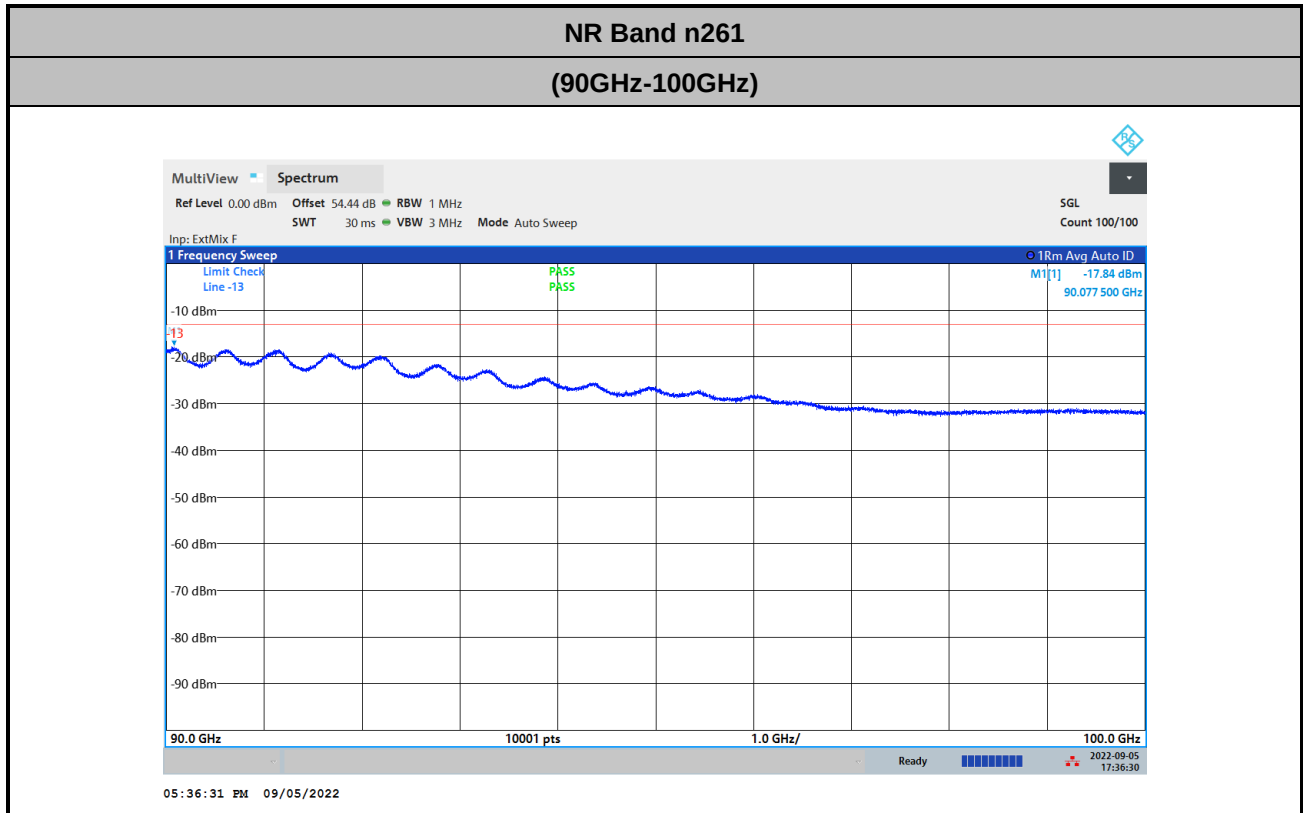
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 55.54 \text{ (dB)} \end{aligned}$$

NR Band n261
(60GHz-90GHz)


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

$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 59.44 \text{ (dB)}$$



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

$$= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 + 9.91 = 54.44 \text{ (dB)}$$

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	27.9260345	-0.500	0.018	Pass
40	Normal Voltage	27.9260345	-0.500	0.018	
30	Normal Voltage	27.9260345	-0.500	0.018	
20(Ref.)	Normal Voltage	27.926034	0.000	0.000	
10	Normal Voltage	27.9260345	-0.500	0.018	
0	Normal Voltage	27.9260345	-0.500	0.018	
-10	Normal Voltage	27.9260345	-0.500	0.018	
-20	Normal Voltage	27.926035	-1.000	0.036	
-30	Normal Voltage	27.926035	-1.000	0.036	
20	Maximum Voltage	27.926034	0.000	0.000	
20	Normal Voltage	27.926034	0.000	0.000	
20	Battery End Point	27.9260345	-0.500	0.018	

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 operation band.

**NR Band n261 Module B AGH+V****Occupied Bandwidth**

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.19	46.06	46.06	91.32	91.51	91.29	189.77	189.83	189.64
Middle CH	45.89	46.18	45.52	91.21	91.21	91.39	189.80	189.49	189.35
Highest CH	45.86	45.97	45.76	91.43	91.16	91.17	189.88	189.44	189.58

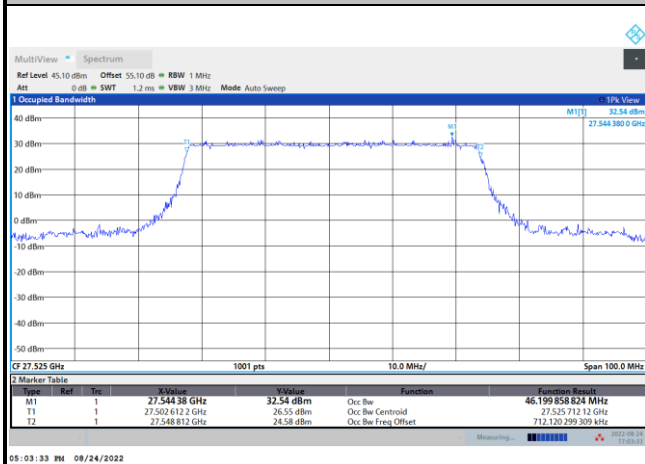
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.09	94.34	192.53
Middle CH	46.05	94.37	193.09
Highest CH	45.98	94.24	192.79



DFT-s-OFDM Module A

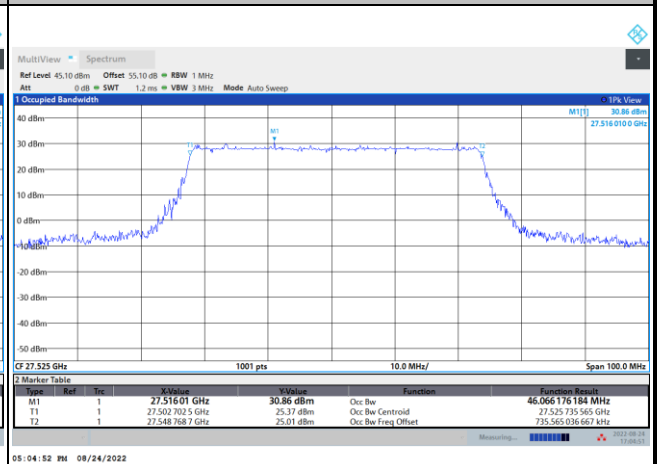
NR Band n261

Lowest Channel / 50MHz / QPSK



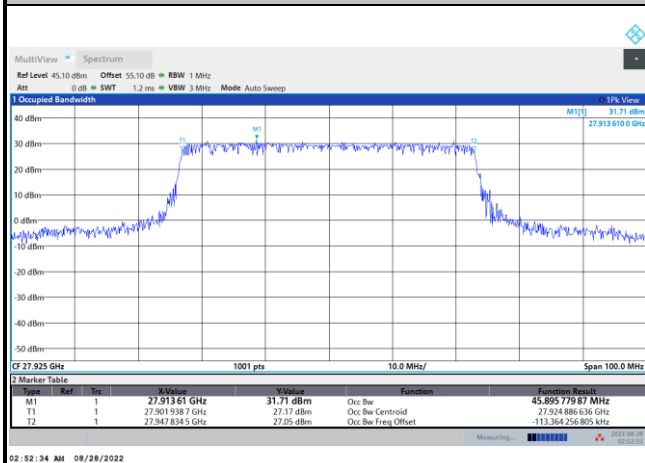
05:03:33 PM 08/24/2022

Lowest Channel / 50MHz / 16QAM



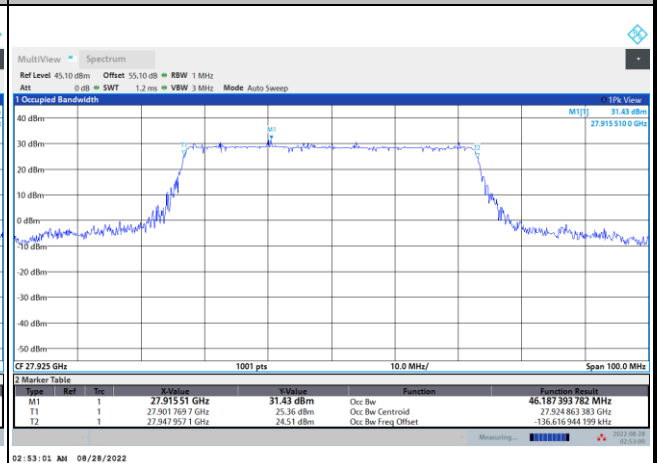
05:04:52 PM 08/24/2022

Middle Channel / 50MHz / QPSK



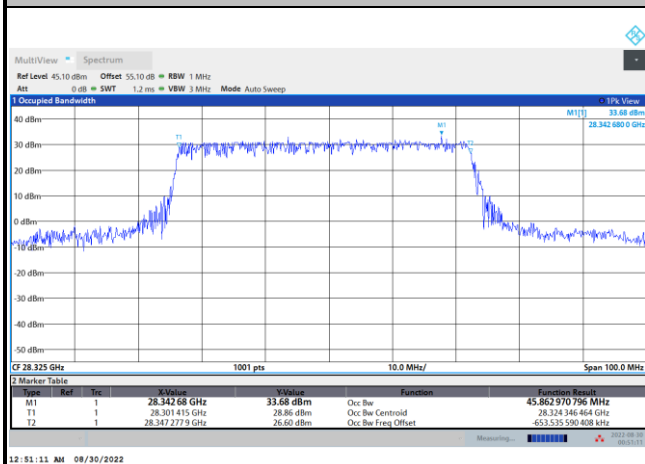
02:52:34 AM 08/28/2022

Middle Channel / 50MHz / 16QAM



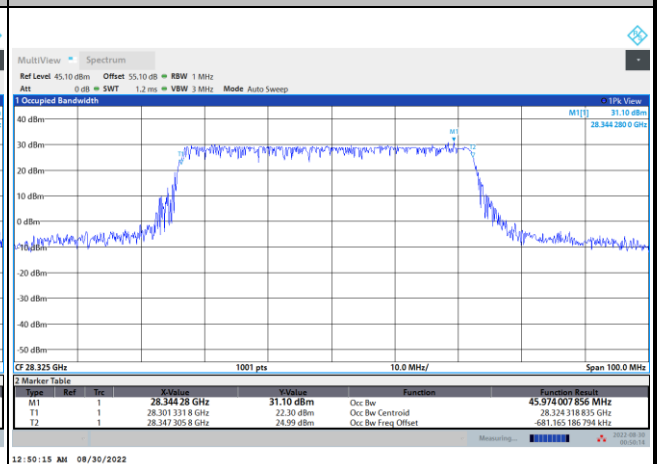
02:53:01 AM 08/28/2022

Highest Channel / 50MHz / QPSK



12:51:11 AM 08/30/2022

Highest Channel / 50MHz / 16QAM



12:50:15 AM 08/30/2022