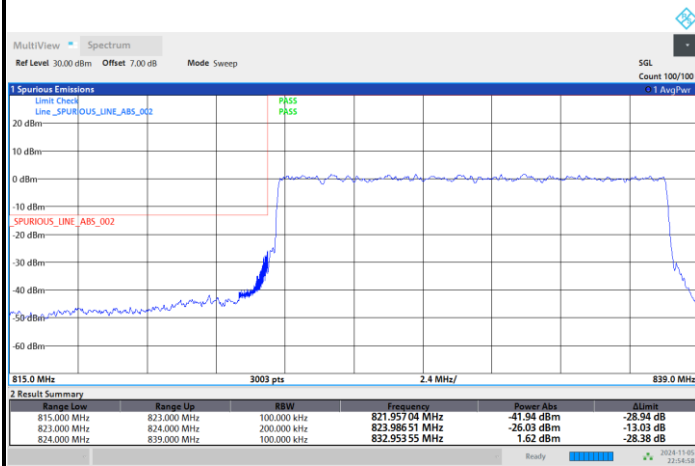




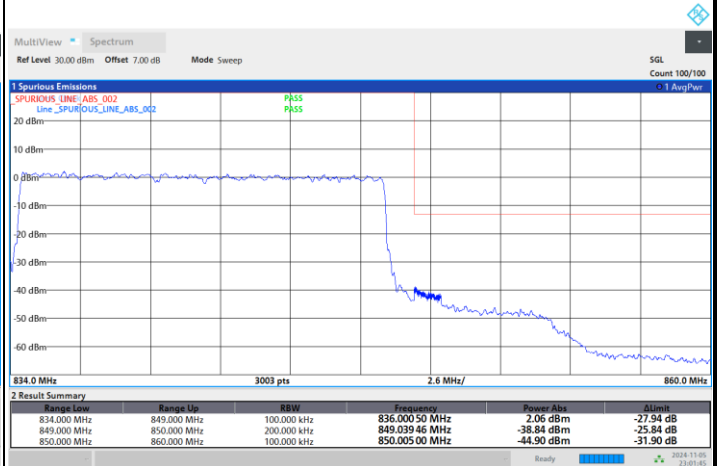
FR1 n26 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge



10:54:59 PM 11/05/2024

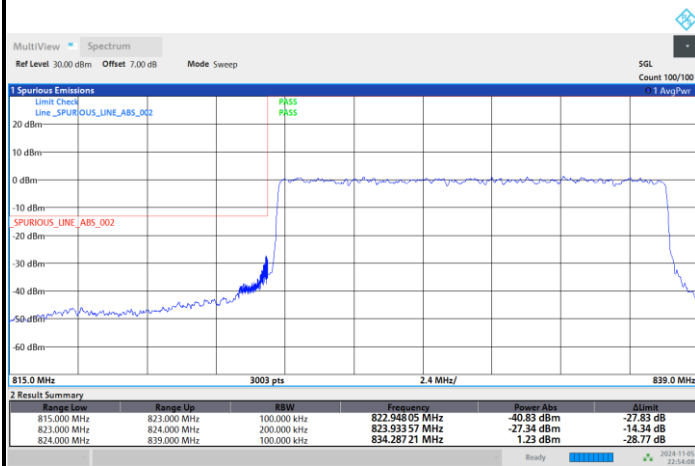
Highest Band Edge



11:01:46 PM 11/05/2024

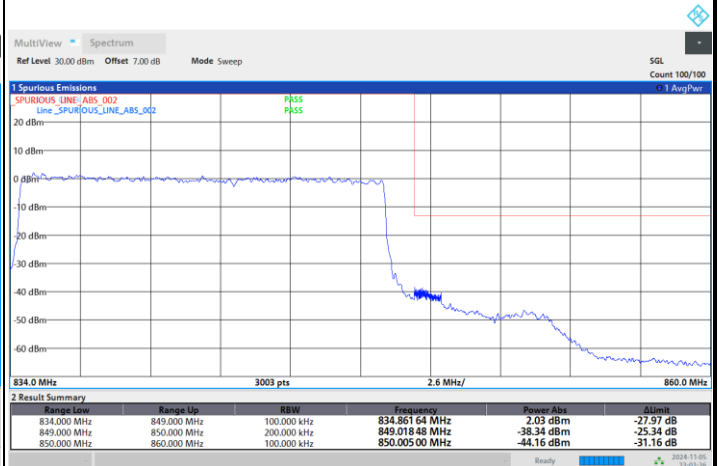
FR1 n26 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

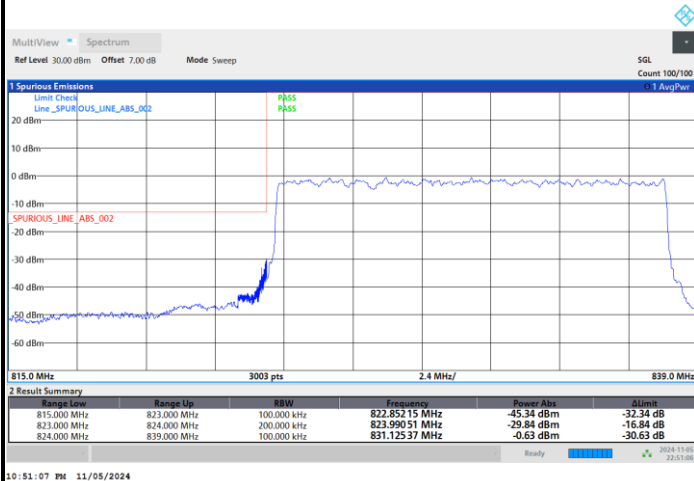


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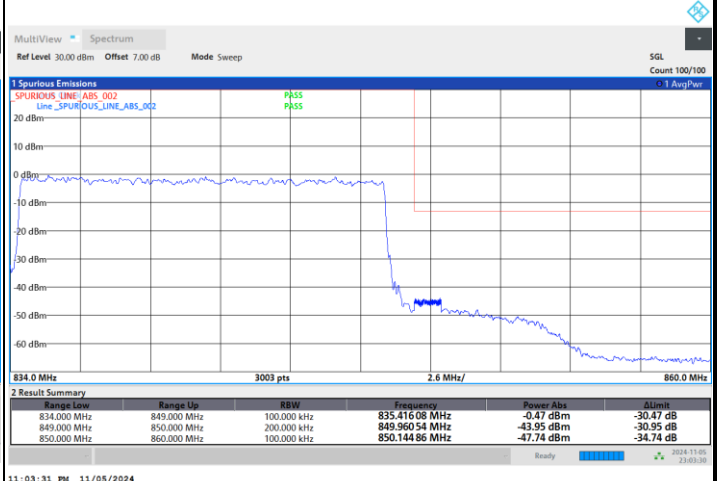
Highest Band Edge



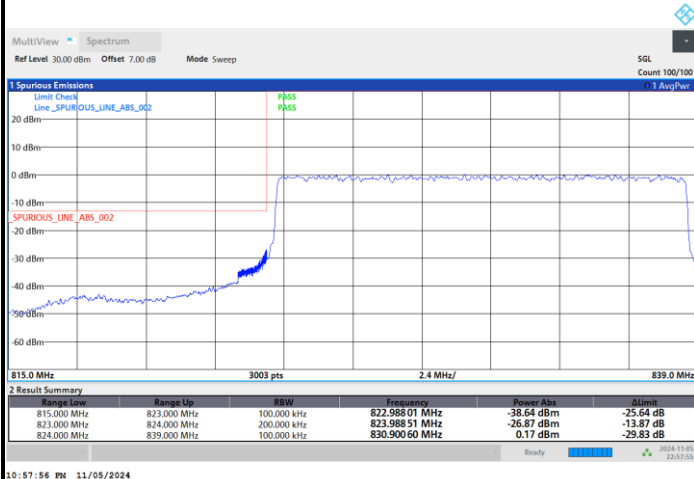
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**FR1 n26 / 15MHz / DFT-s-OFDM / 256QAM / Full RB****Lowest Band Edge**

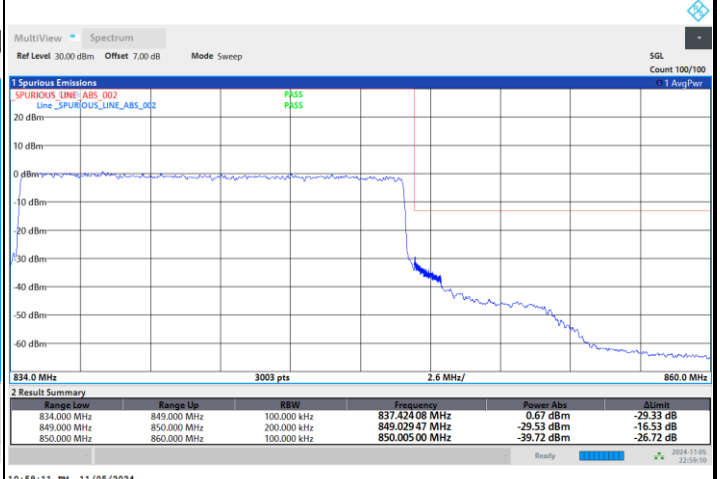
10:51:07 PM 11/05/2024

Highest Band Edge

11:03:31 PM 11/05/2024

FR1 n26 / 15MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

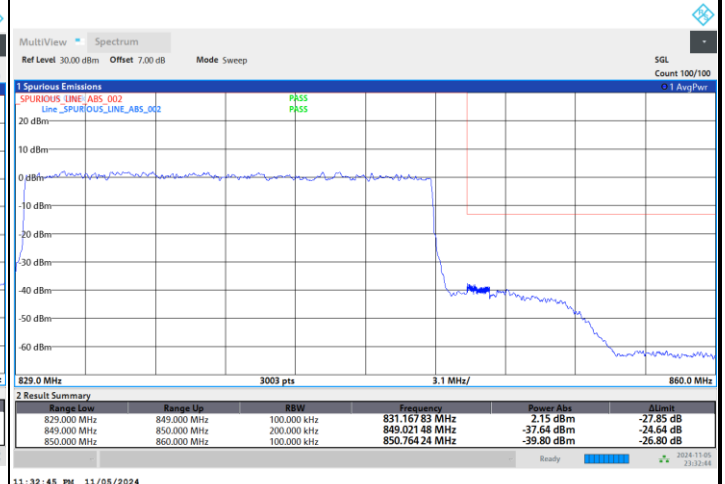
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Highest Band Edge

10:59:11 PM 11/05/2024

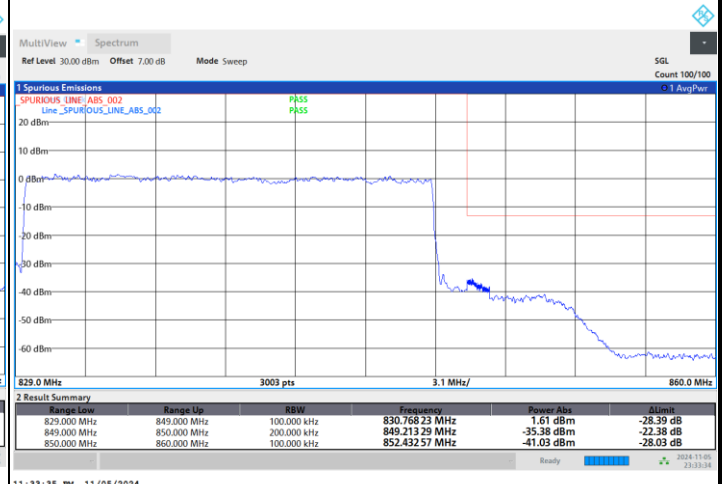
**FR1 n26 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB**

Highest Band Edge



11:32:45 PM 11/05/2024

Highest Band Edge

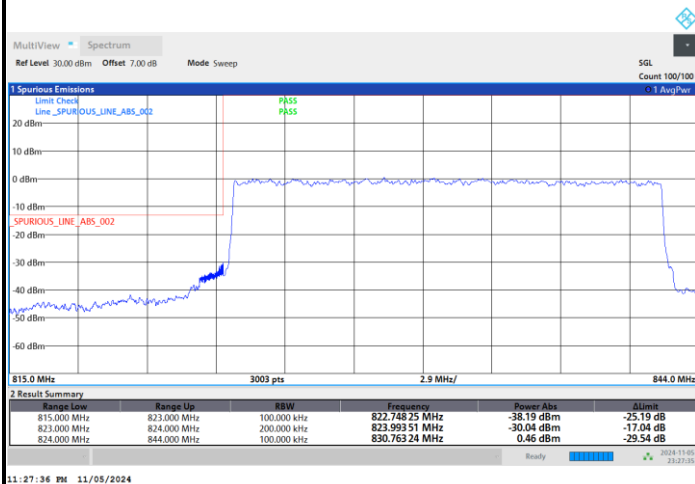


11:33:35 PM 11/05/2024



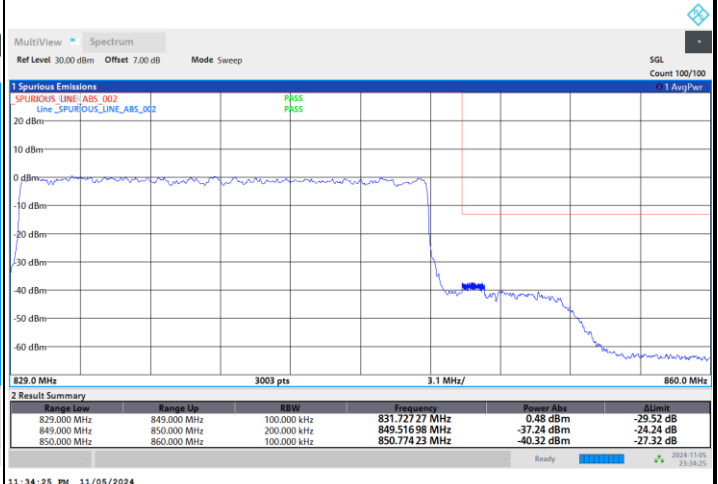
FR1 n26 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge



11:27:36 PM 11/05/2024

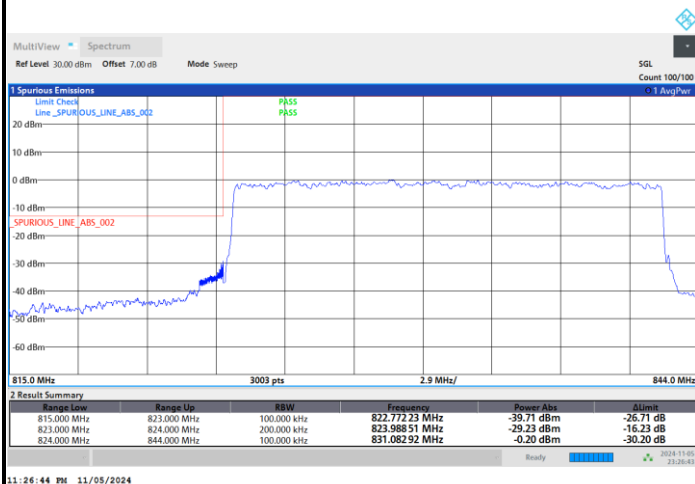
Highest Band Edge



11:34:25 PM 11/05/2024

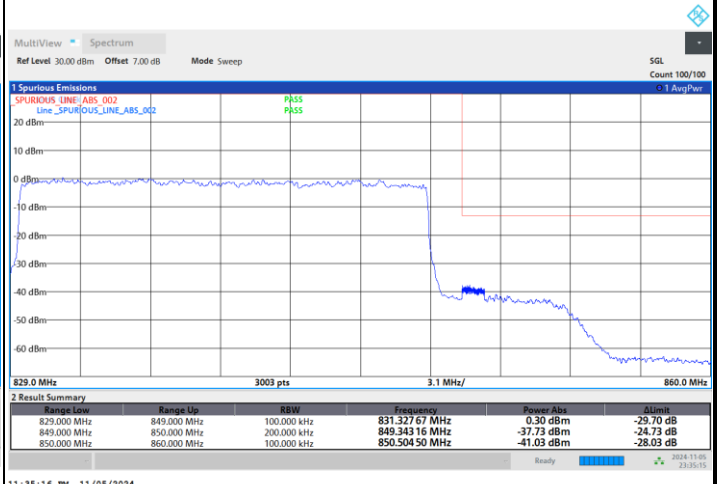
FR1 n26 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge



11:26:44 PM 11/05/2024

Highest Band Edge

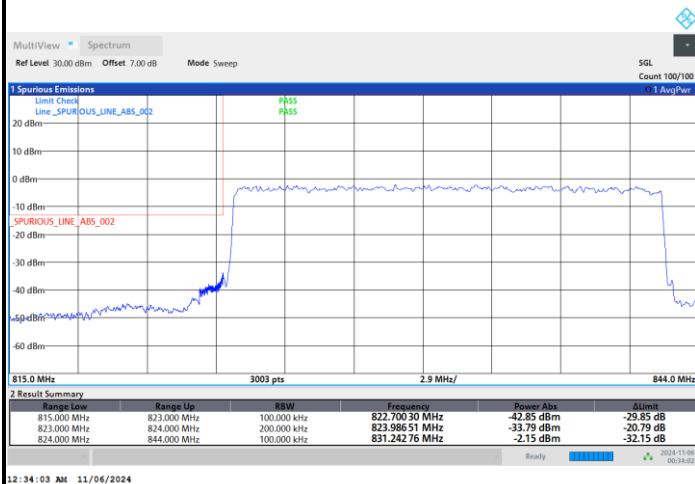


11:35:16 PM 11/05/2024



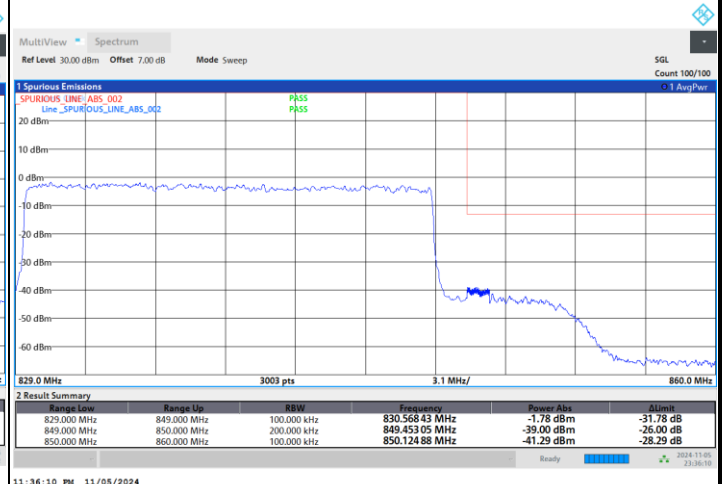
FR1 n26 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge



12:34:03 AM 11/06/2024

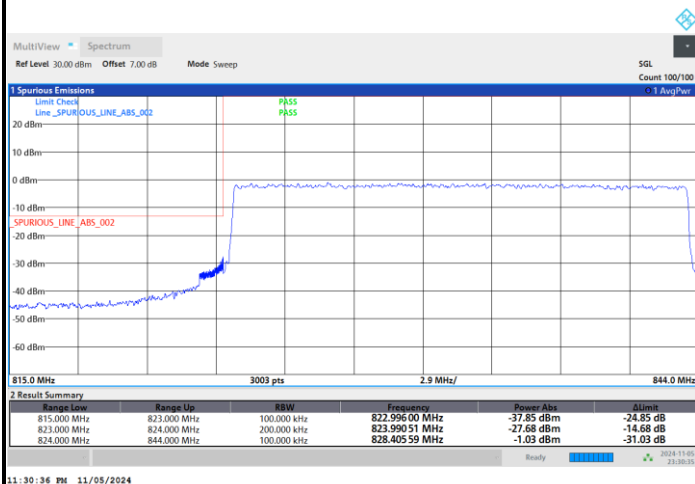
Highest Band Edge



11:36:10 PM 11/05/2024

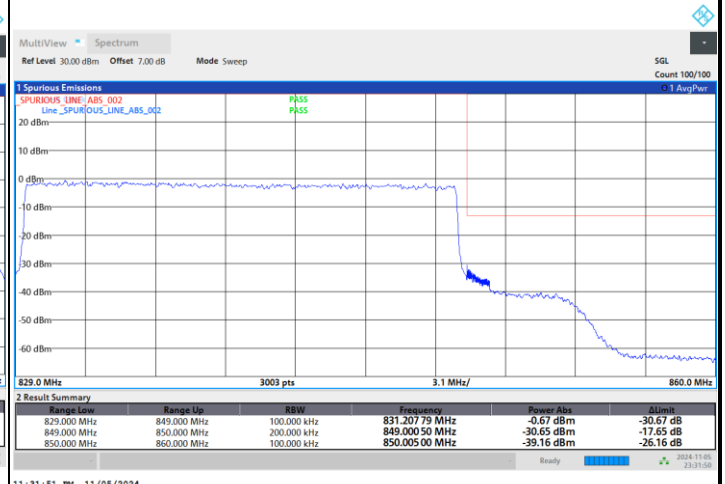
FR1 n26 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



11:30:36 PM 11/05/2024

Highest Band Edge



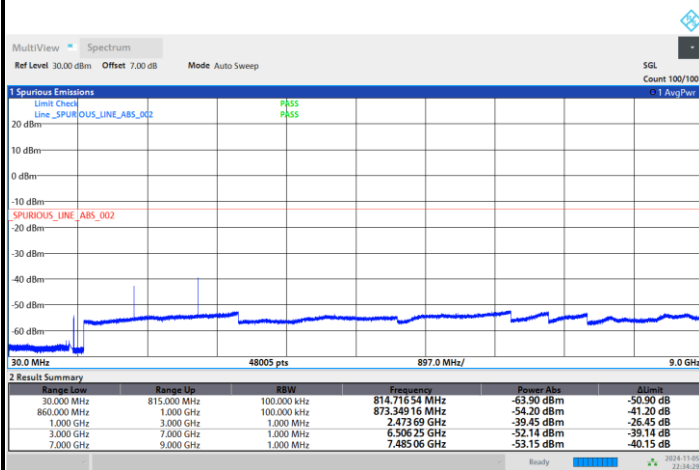
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Conducted Spurious Emission

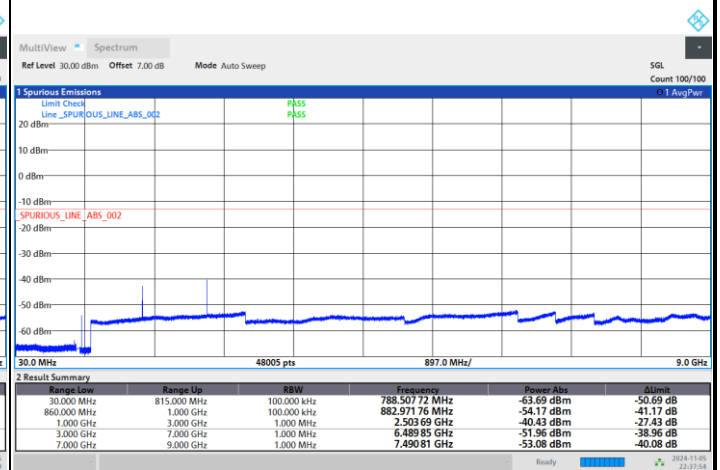
FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



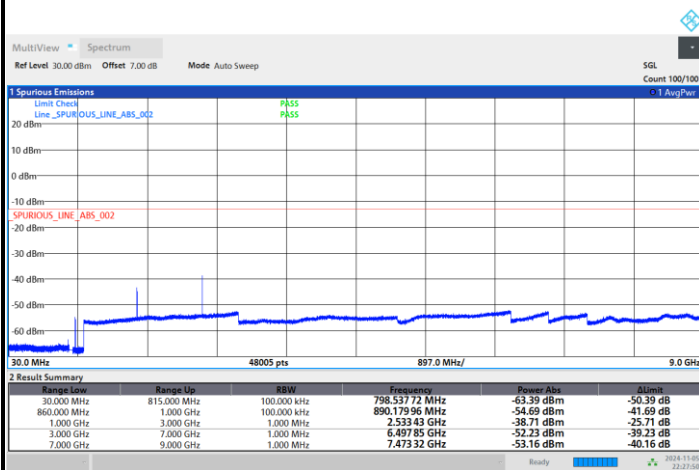
10:34:30 PM 11/05/2024

Middle Channel



10:37:55 PM 11/05/2024

Highest Channel



10:27:51 PM 11/05/2024

Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0022	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n26

<SISO Mode>

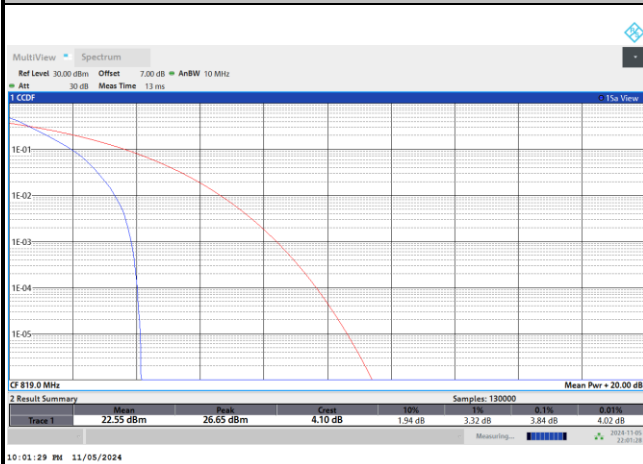
Peak-to-Average Ratio

Mode	FR1 n26 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.84	4.56	5.46	5.82	PASS
Mode	FR1 n26 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.54				PASS

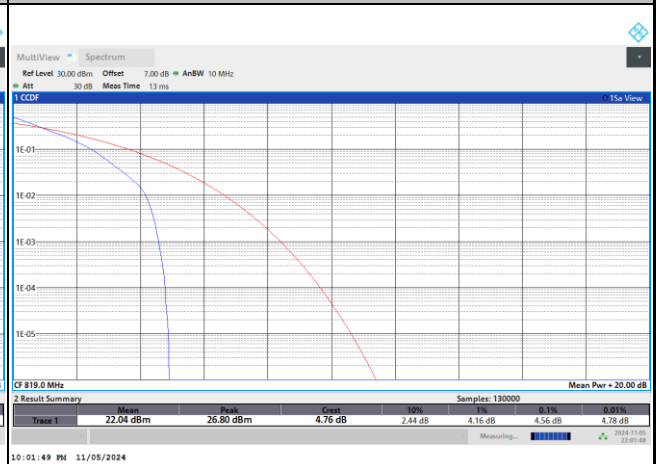


FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

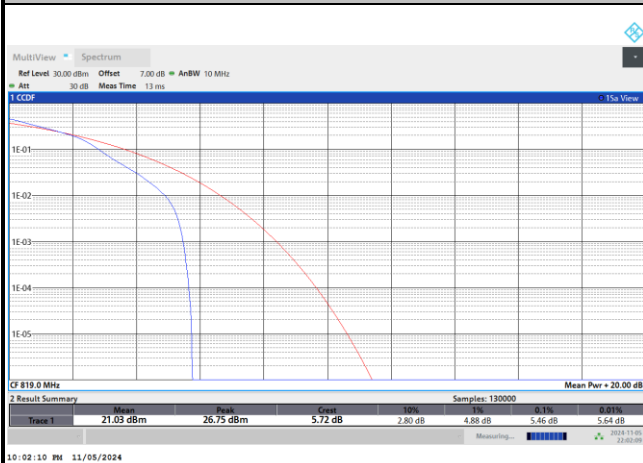
PI/2 BPSK



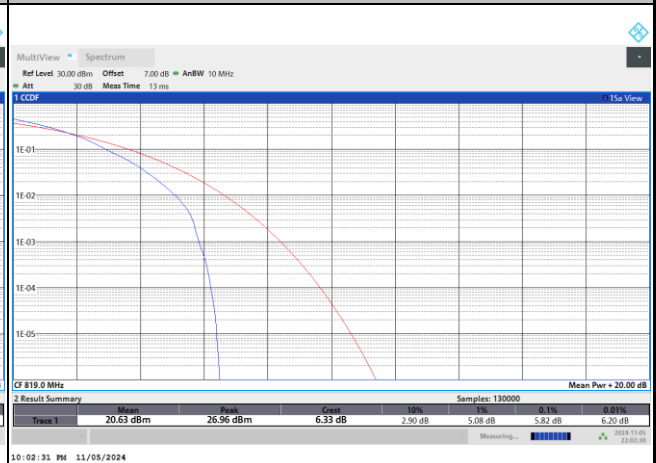
QPSK



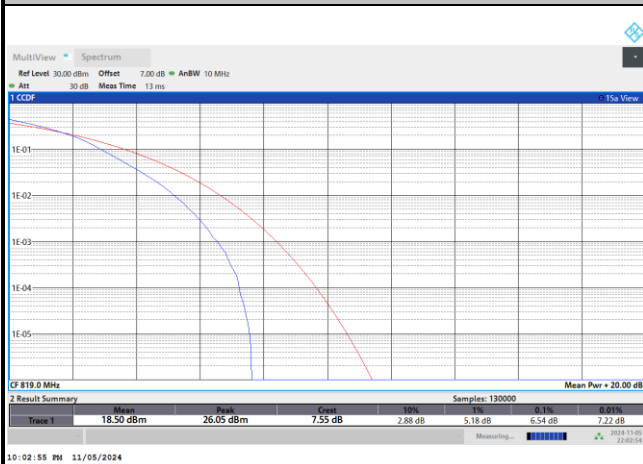
16QAM



64QAM



256QAM



**26dB Bandwidth**

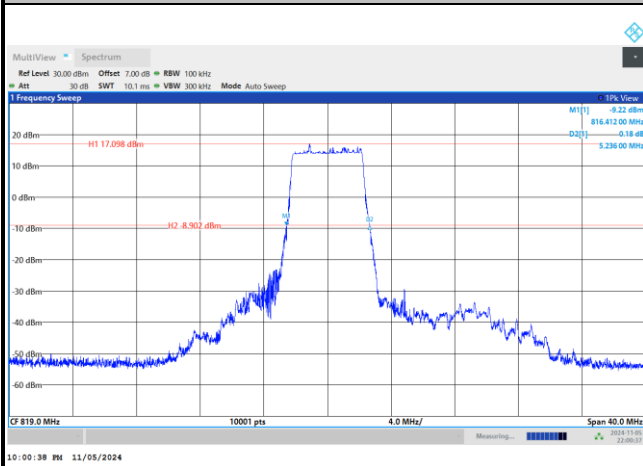
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.23		9.75					

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.26	5.23	10.36	10.26				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.24	5.28	10.24	10.23				



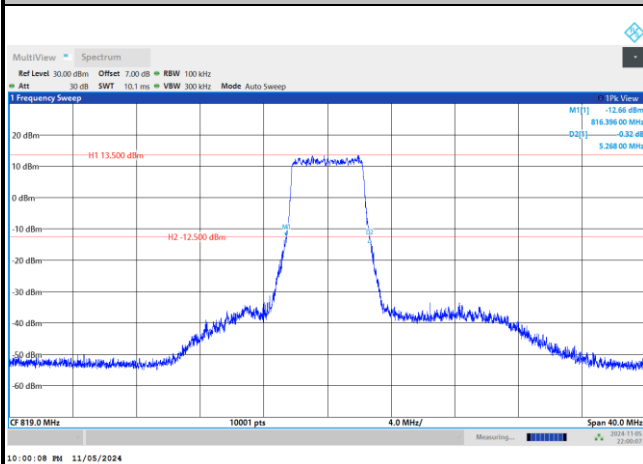
FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

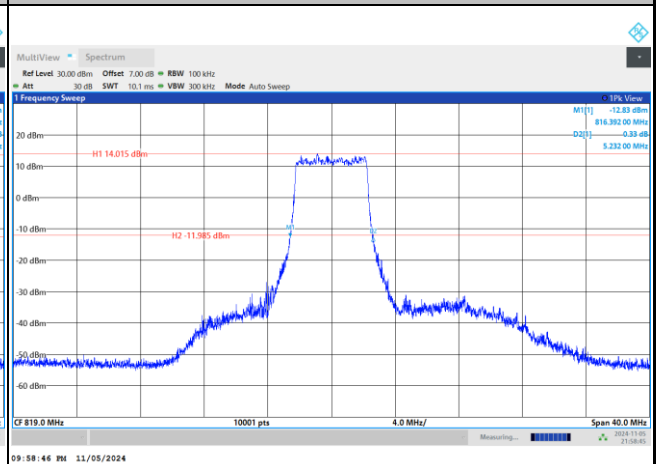


FR1 n26 / 5MHz / CP OFDM / Middle Channel / Full RB

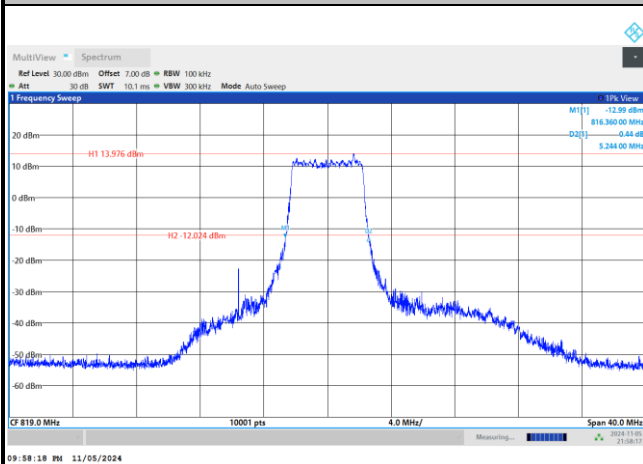
QPSK



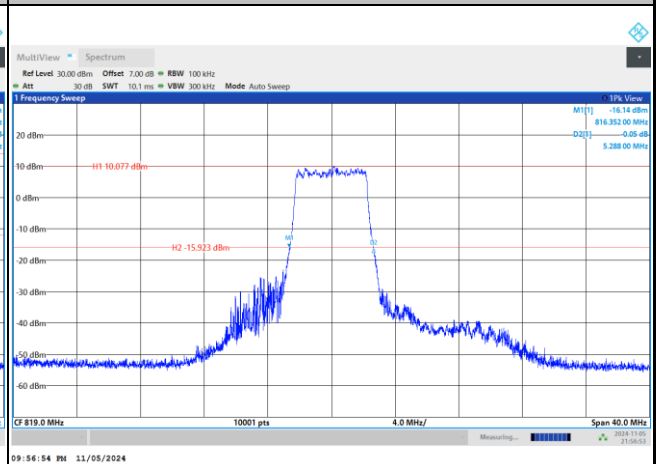
16QAM

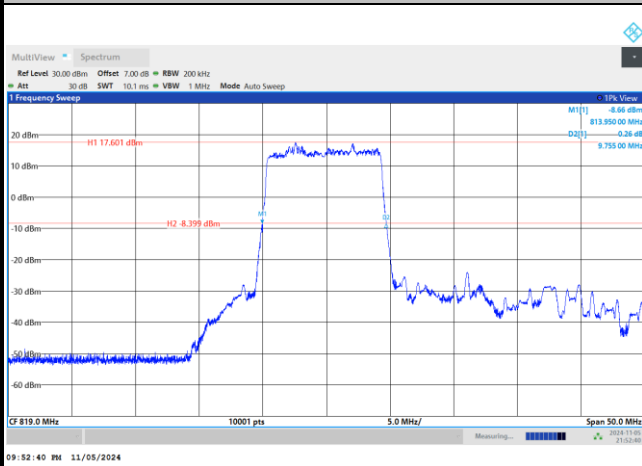
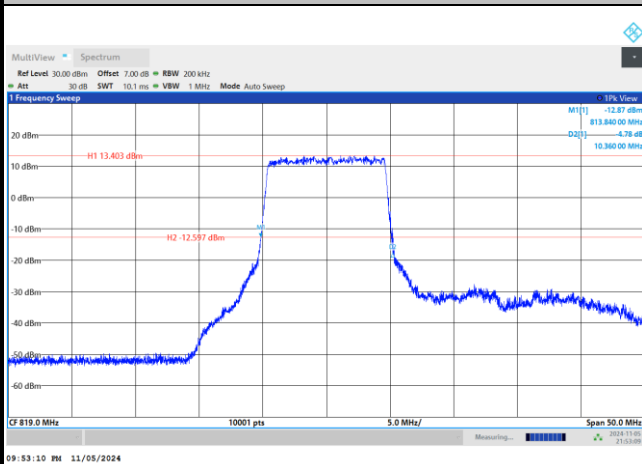
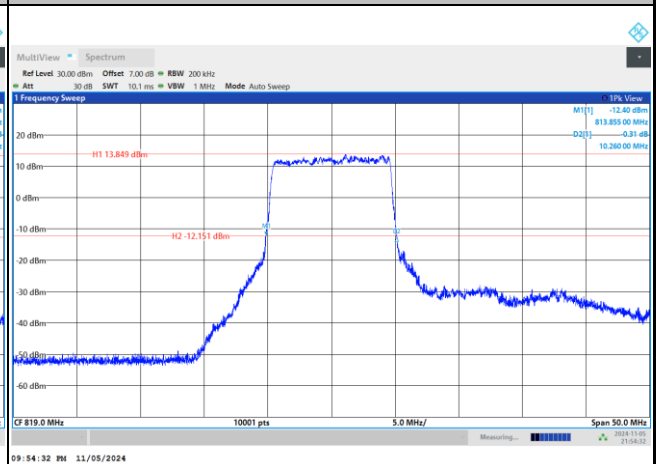
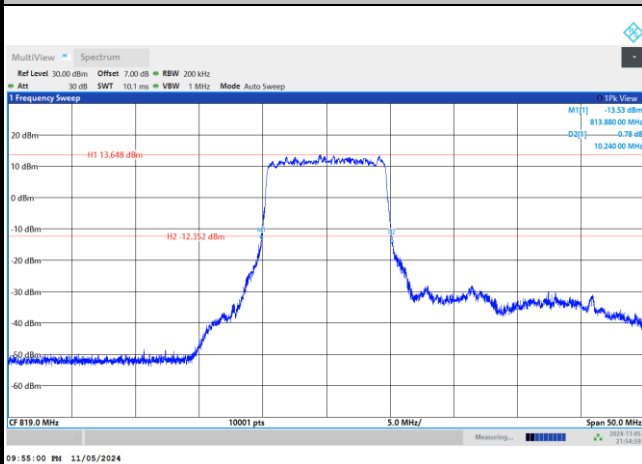
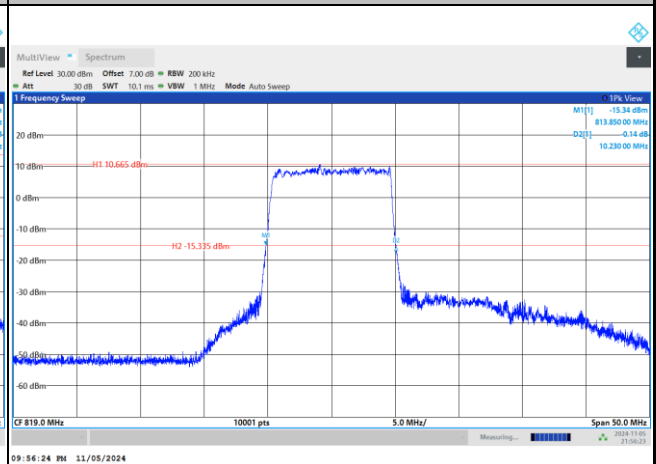


64QAM



256QAM



FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


**Occupied Bandwidth**

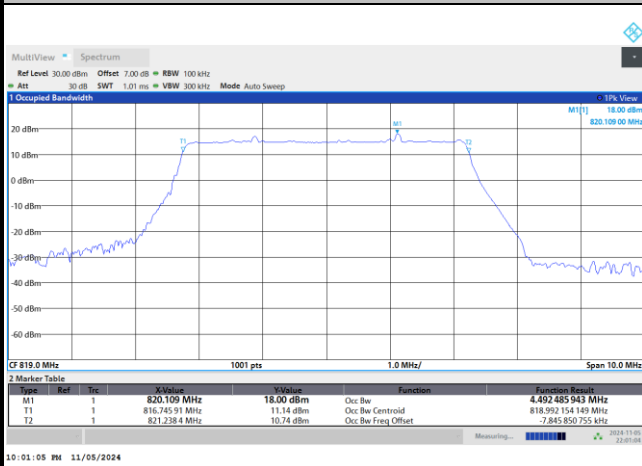
Mode	FR1 n26 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.49		8.95					

Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.52	4.52	9.29	9.31				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.52	4.52	9.29	9.33				



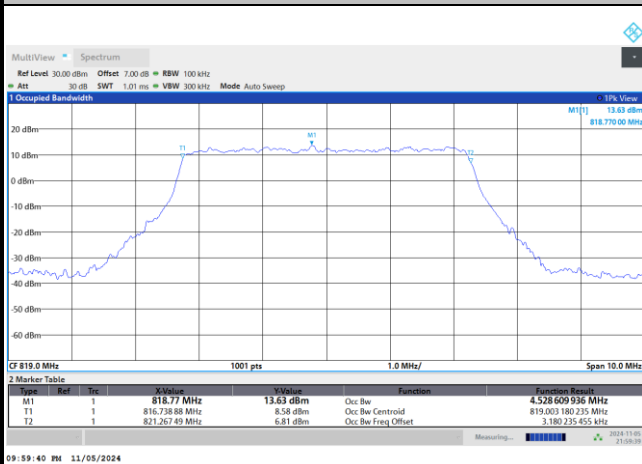
FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

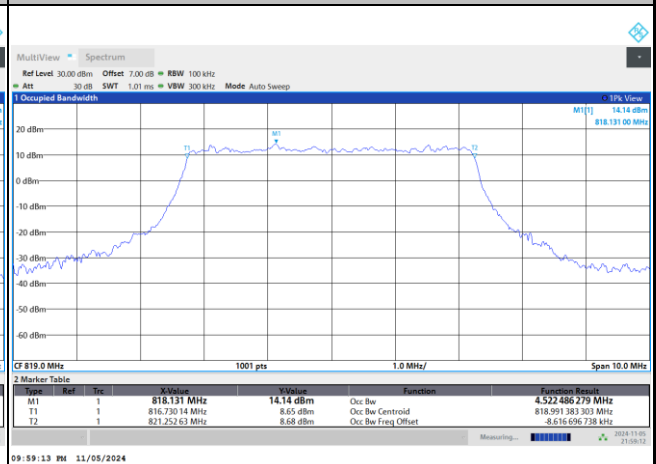


FR1 n26 / 5MHz / CP OFDM / Middle Channel / Full RB

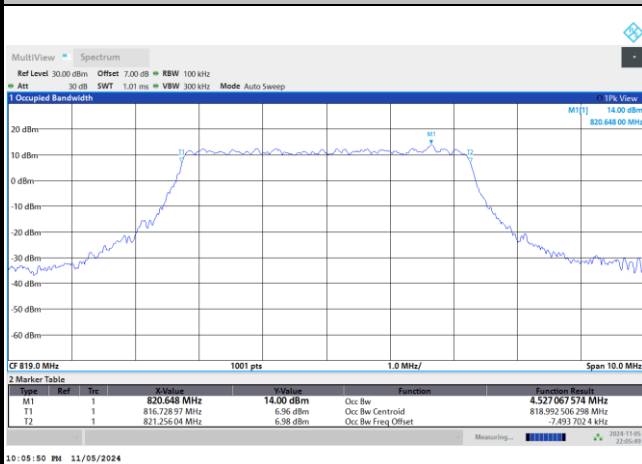
QPSK



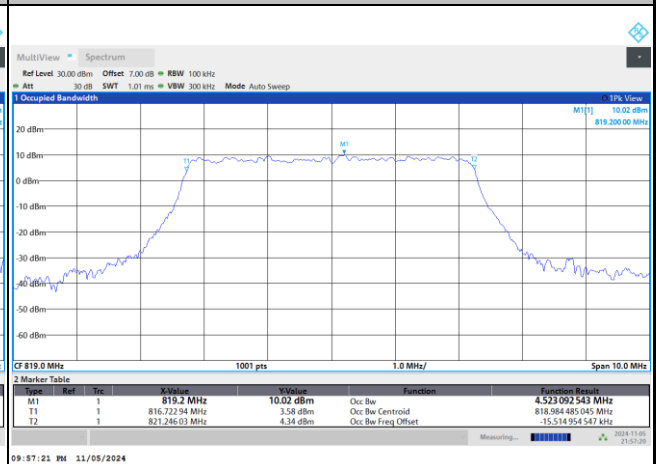
16QAM



64QAM



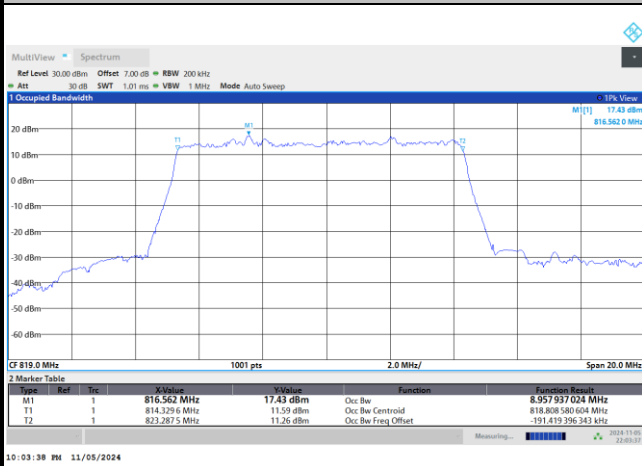
256QAM





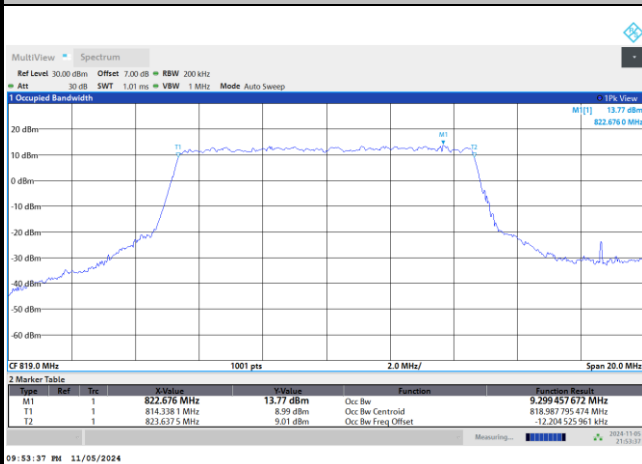
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

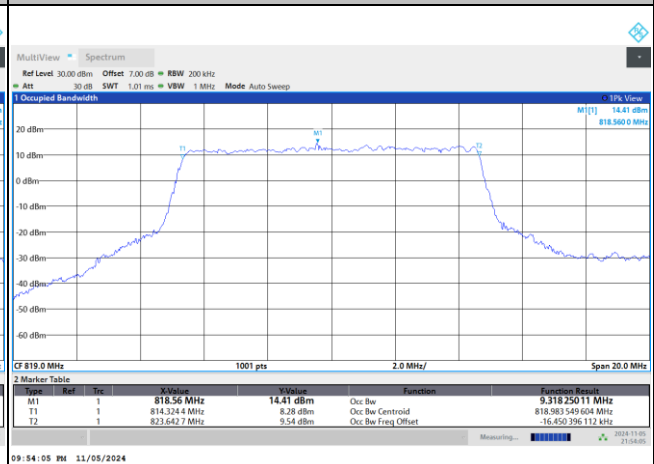


FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB

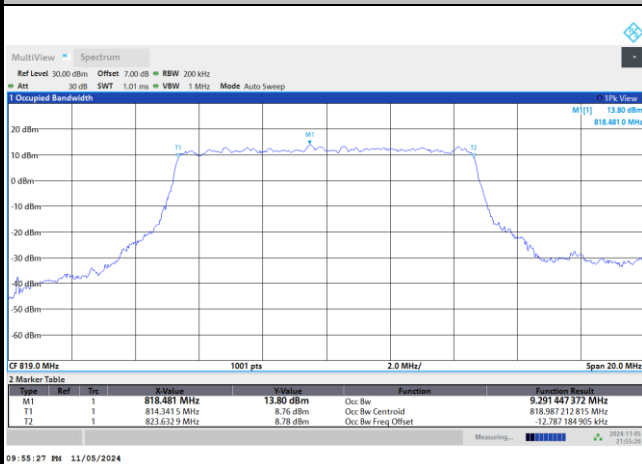
QPSK



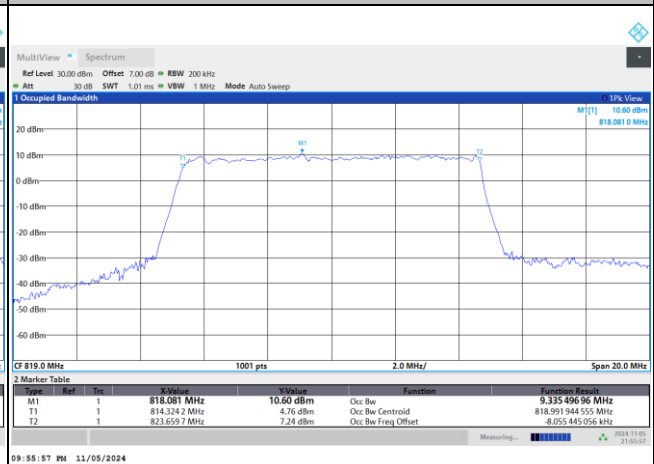
16QAM



64QAM



256QAM

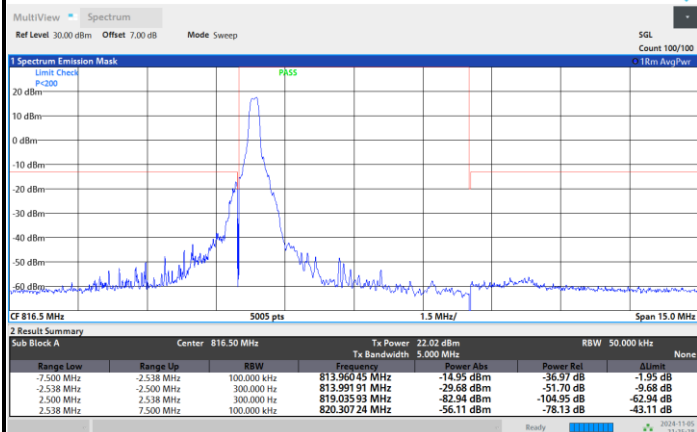




Emission masks – In-band emissions

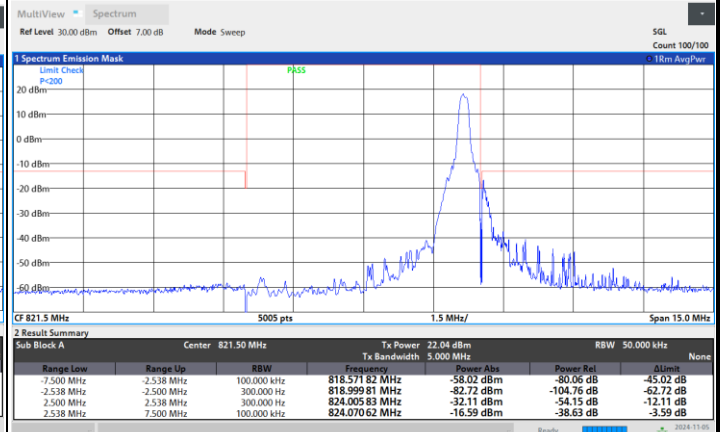
FR1 n26 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest MASK / 1RB0



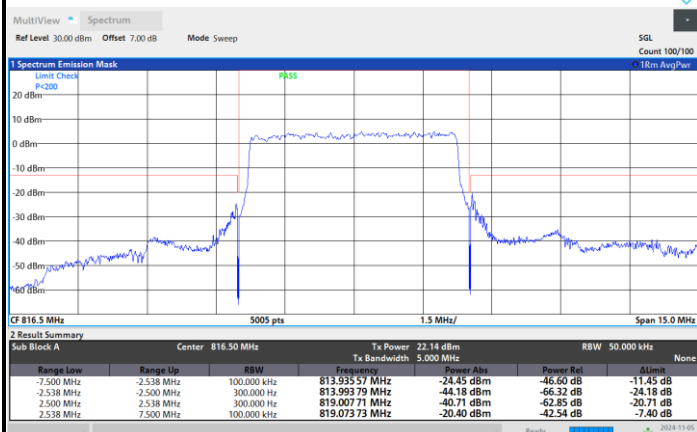
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Highest MASK / 1RBmax



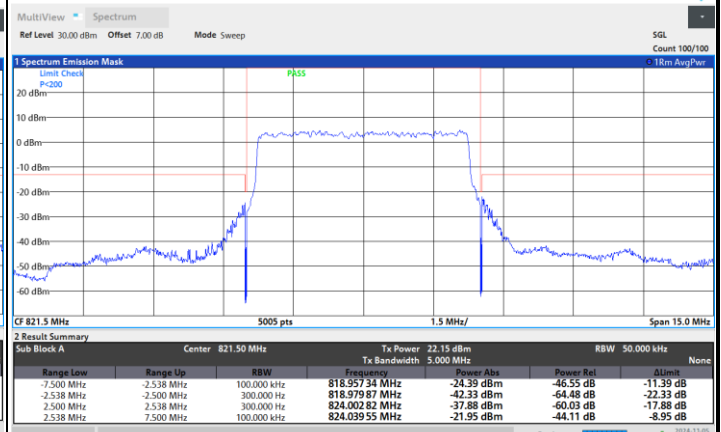
09:35:09 PM 11/05/2024

Lowest MASK / Full RB



09:24:43 PM 11/05/2024

Highest MASK / Full RB

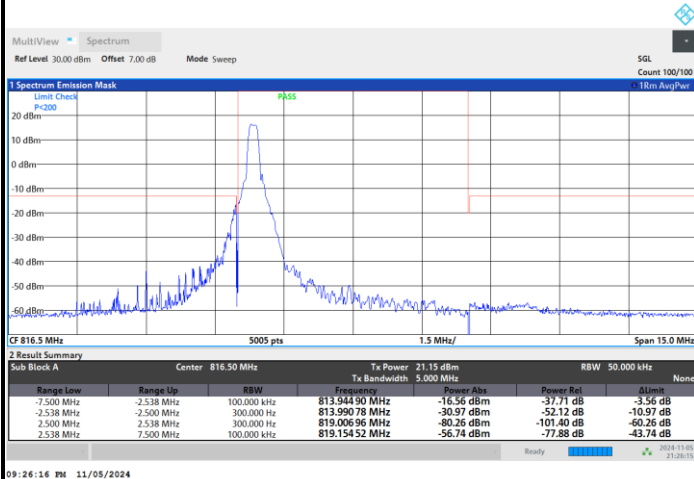


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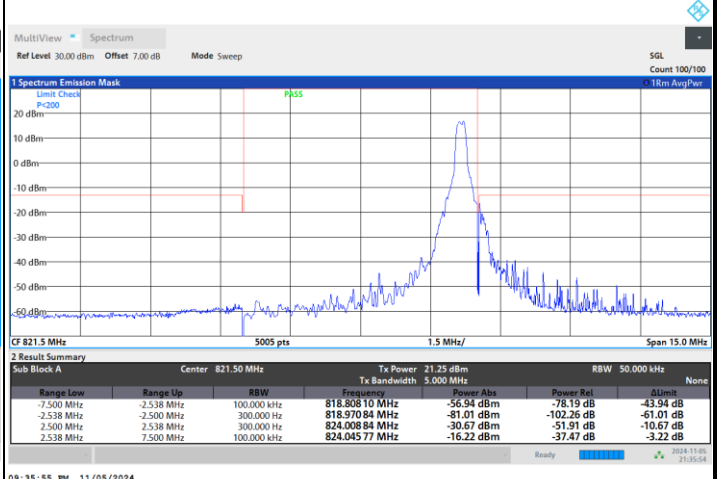
FR1 n26 / 5MHz / DFT-S OFDM / QPSK

Lowest MASK / 1RB0



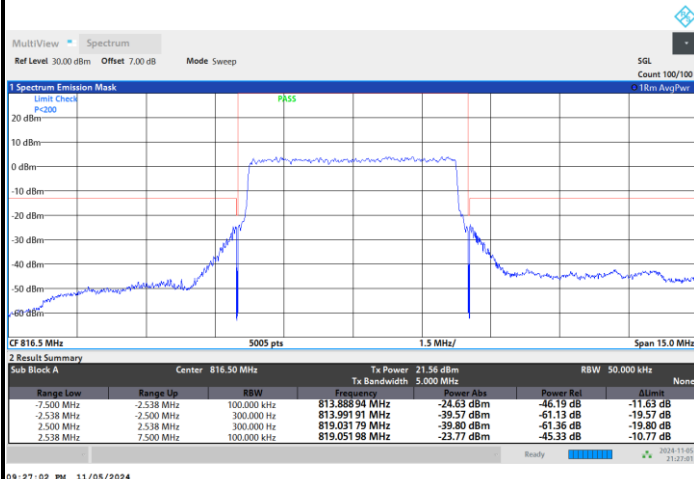
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Highest MASK / 1RBmax



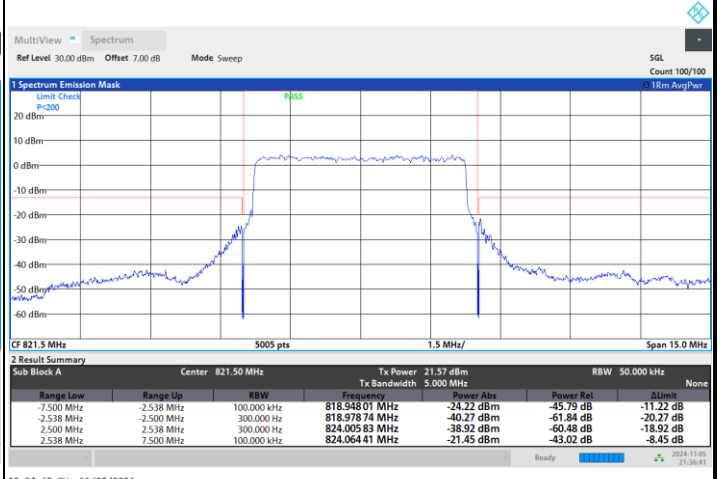
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Lowest MASK / Full RB



09:27:02 PM 11/05/2024

Highest MASK / Full RB

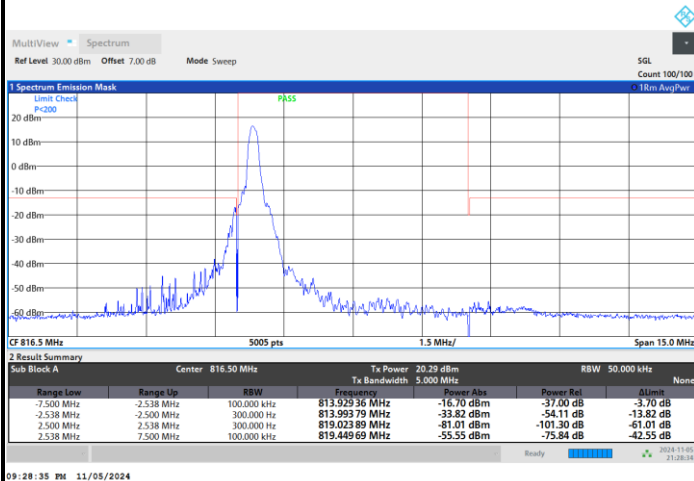


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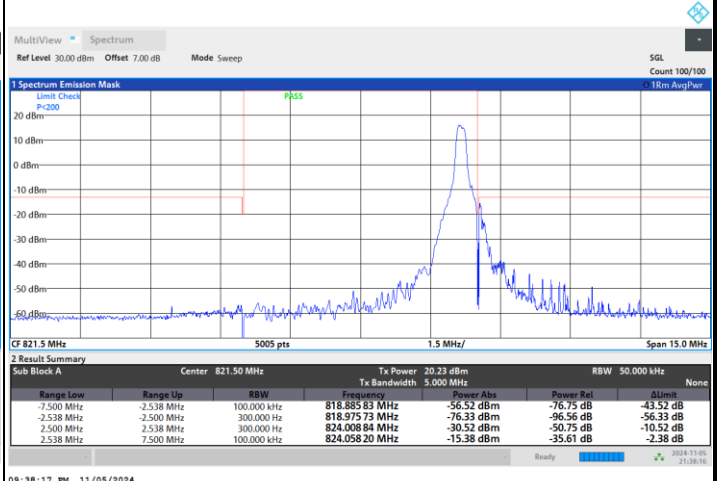
FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

Lowest MASK / 1RB0



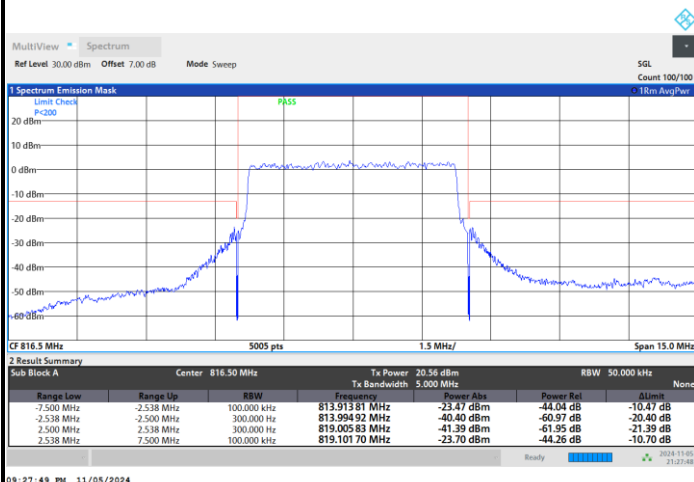
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Highest MASK / 1RBmax



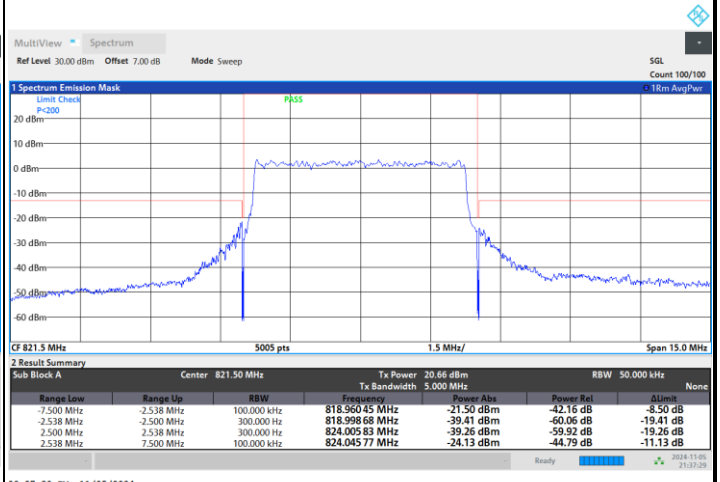
09:38:17 PM 11/05/2024

Lowest MASK / Full RB



09:27:49 PM 11/05/2024

Highest MASK / Full RB

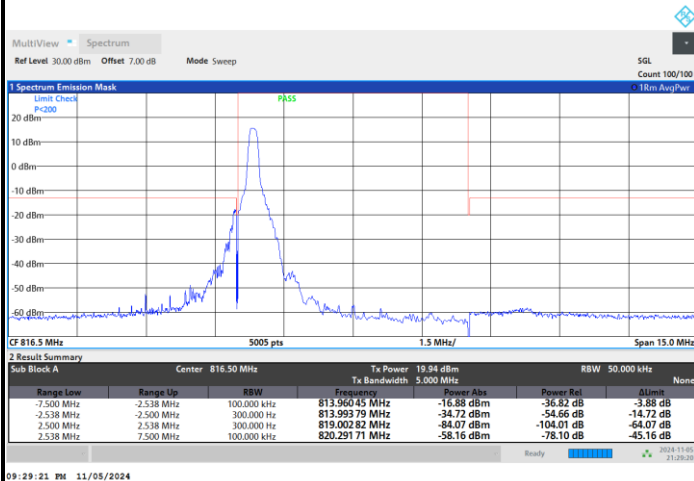


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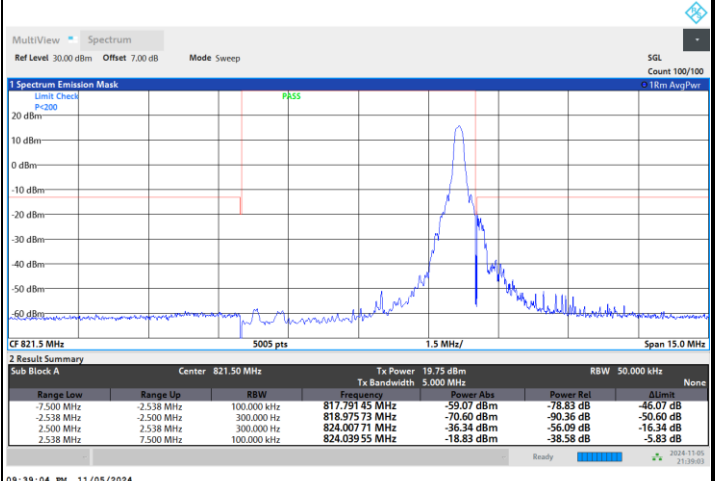
FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

Lowest MASK / 1RB0



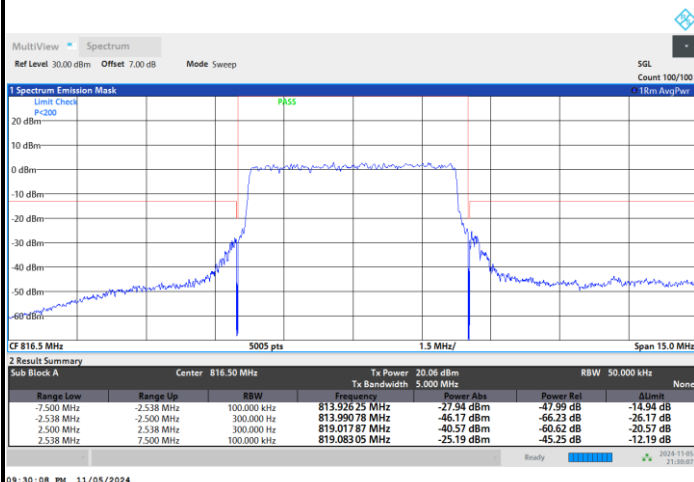
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Highest MASK / 1RBmax



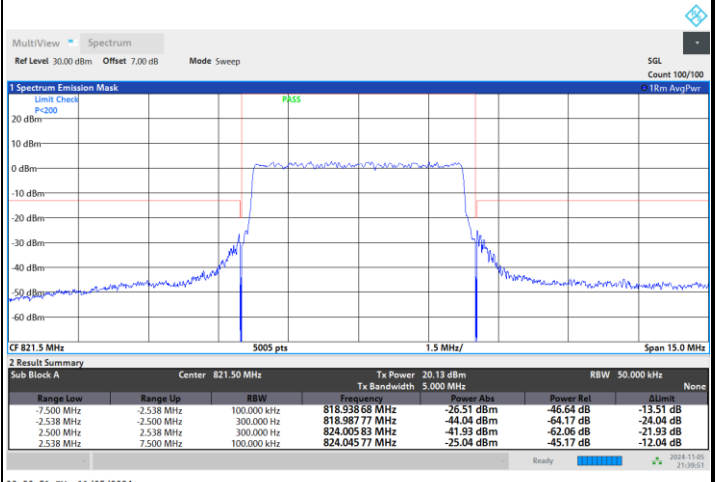
09:29:04 PM 11/05/2024

Lowest MASK / Full RB



09:30:08 PM 11/05/2024

Highest MASK / Full RB

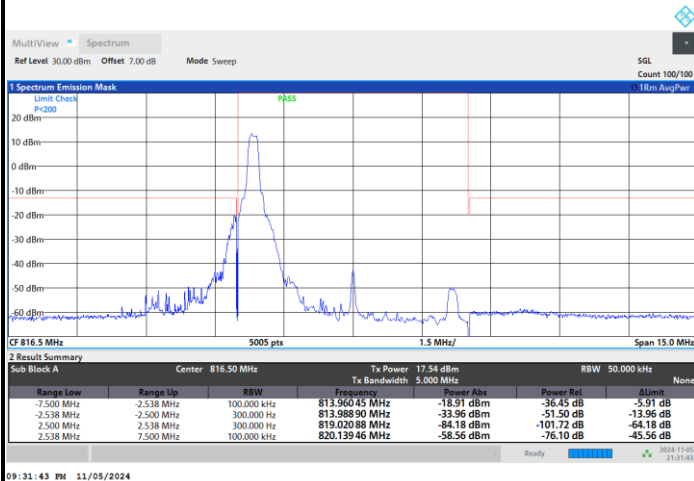


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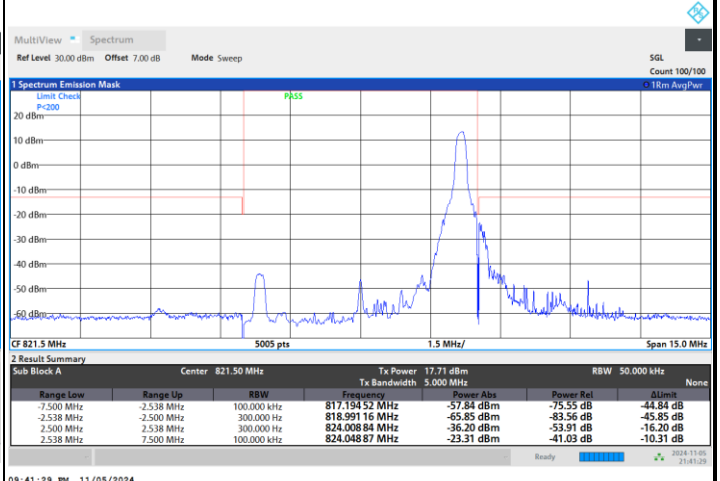


FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

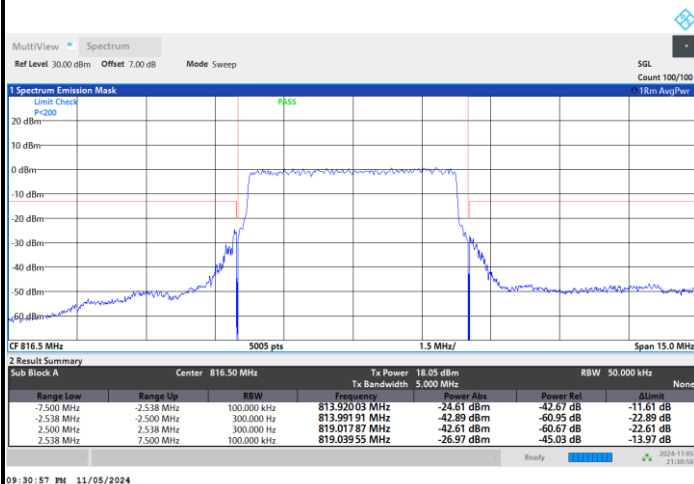
Lowest MASK / 1RB0



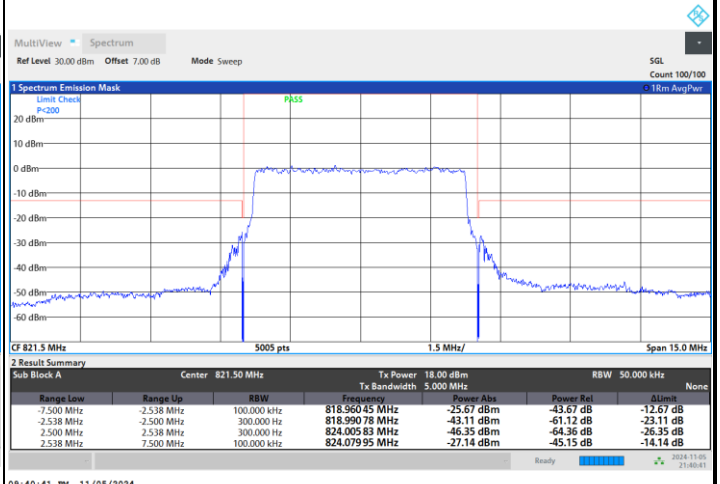
Highest MASK / 1RBmax



Lowest MASK / Full RB



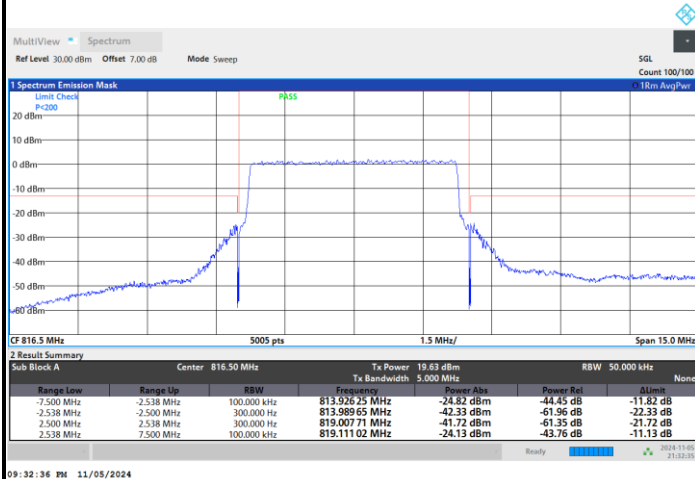
Highest MASK / Full RB





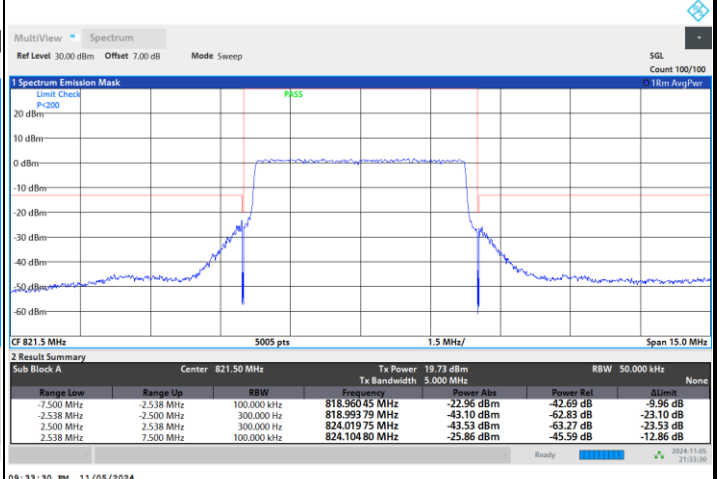
FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB

Lowest MASK

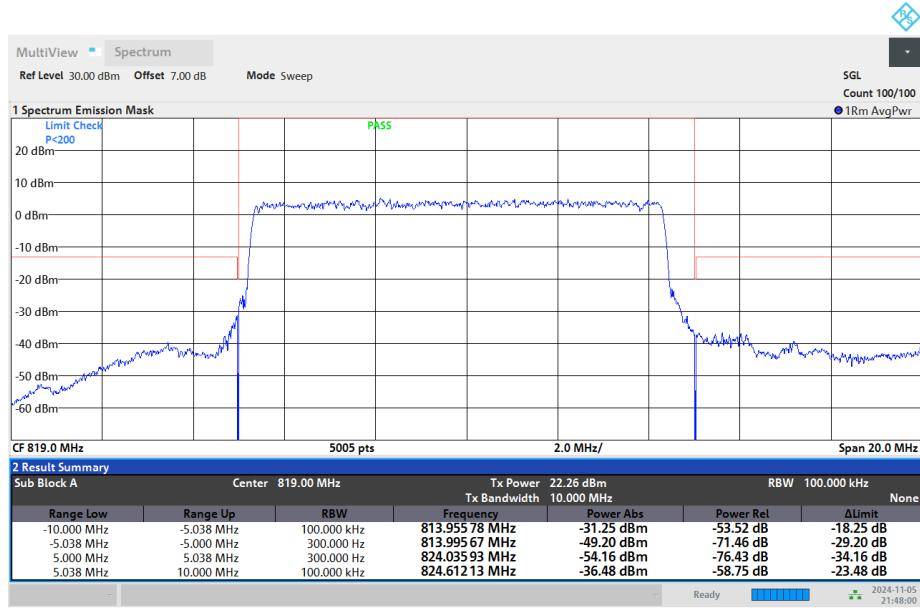


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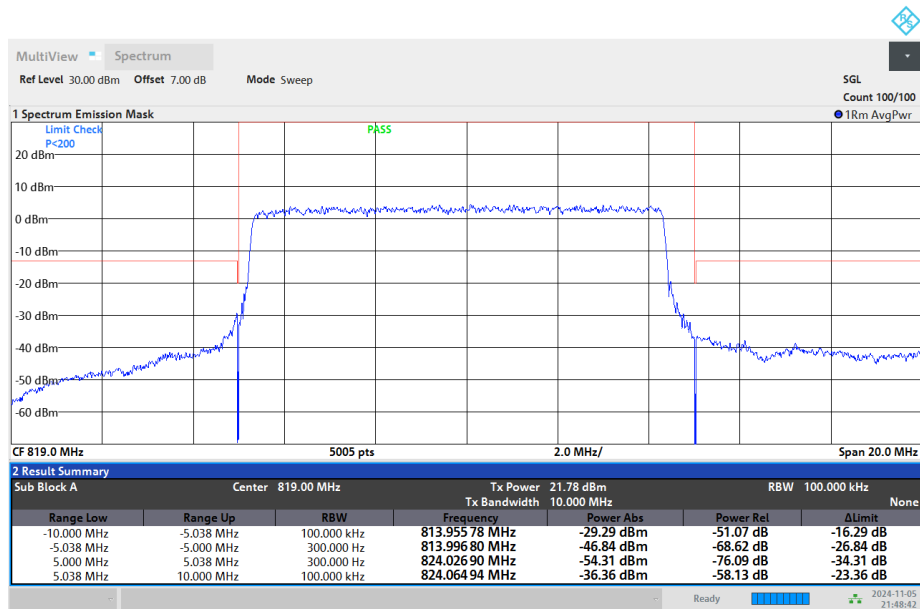
Highest MASK



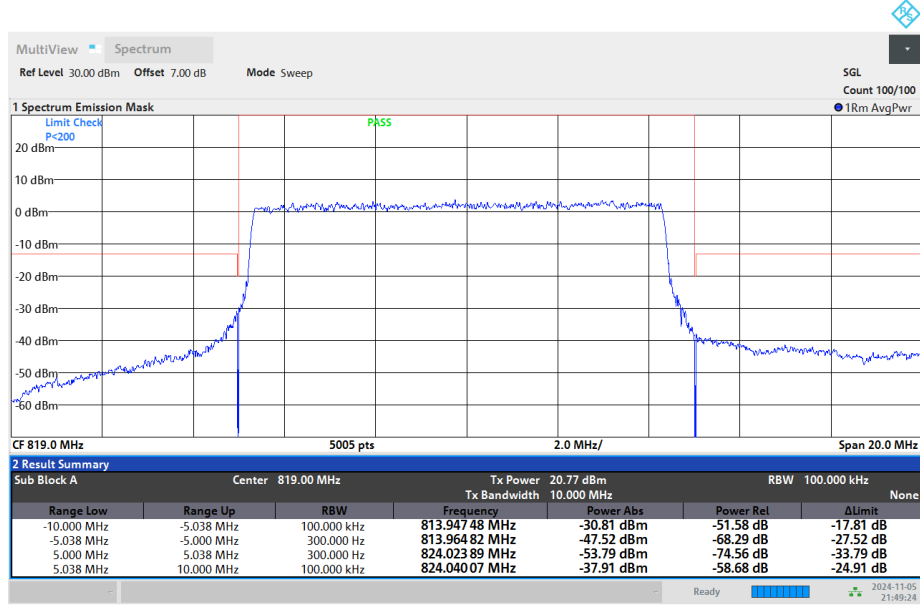
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**FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK****Middle MASK / Full RB**

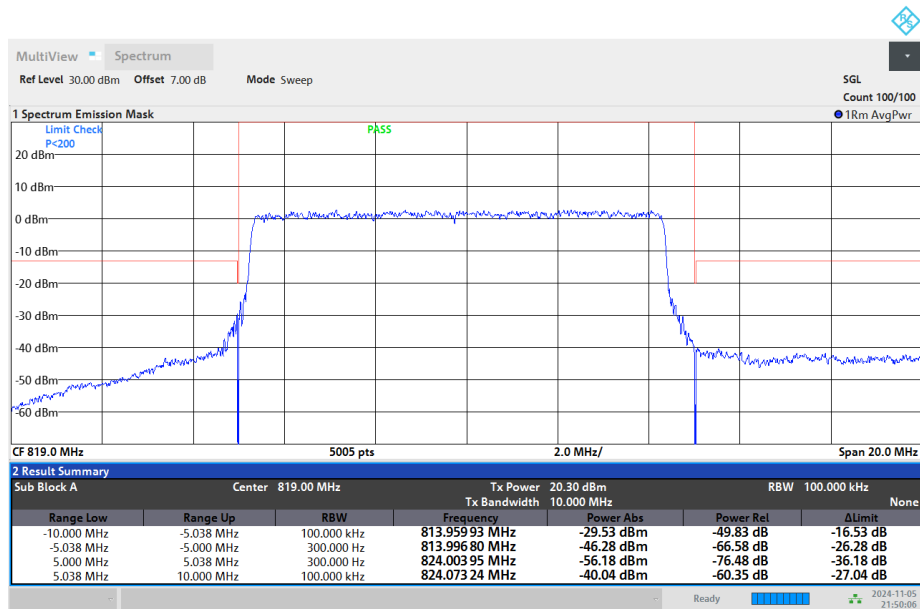
09:48:01 PM 11/05/2024

FR1 n26 / 10MHz / DFT-s-OFDM / QPSK**Lowest MASK / Full RB**

09:48:43 PM 11/05/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / 16QAM****Middle MASK / Full RB**

09:49:25 PM 11/05/2024

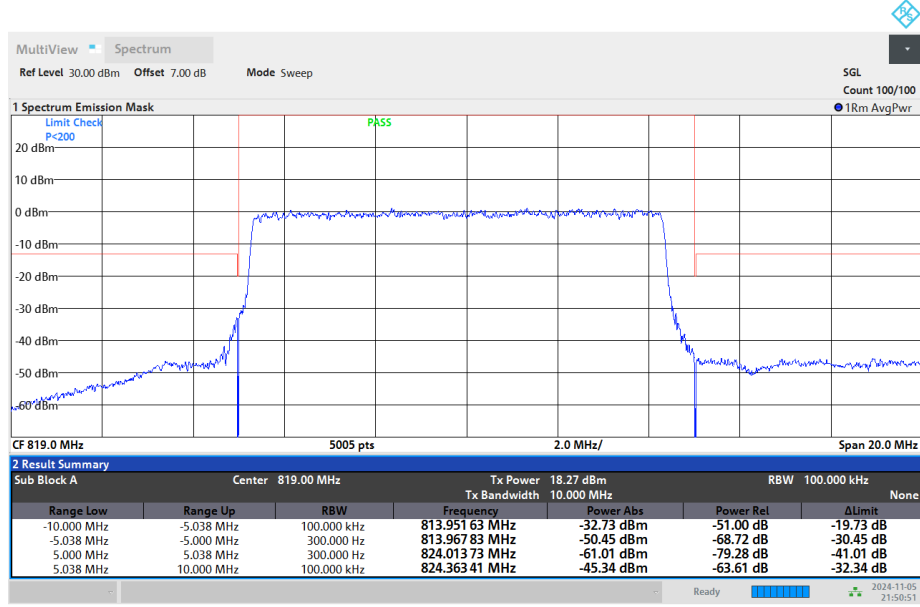
FR1 n26 / 10MHz / DFT-s-OFDM / 64QAM**Middle MASK / Full RB**

09:50:07 PM 11/05/2024



FR1 n26 / 10MHz / DFT-s-OFDM / 256QAM

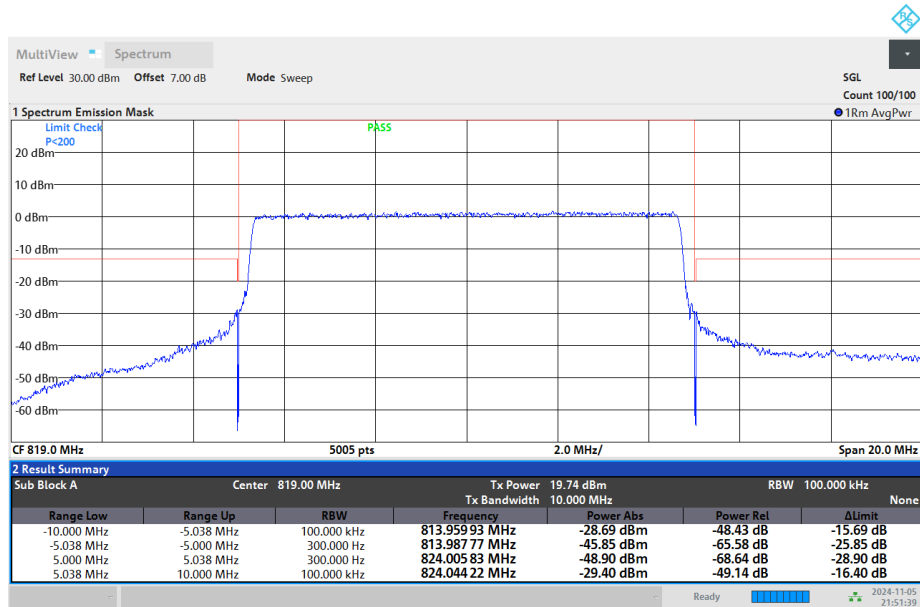
Middle MASK / Full RB



09:50:52 PM 11/05/2024

FR1 n26 / 10MHz / CP OFDM / QPSK / Full RB

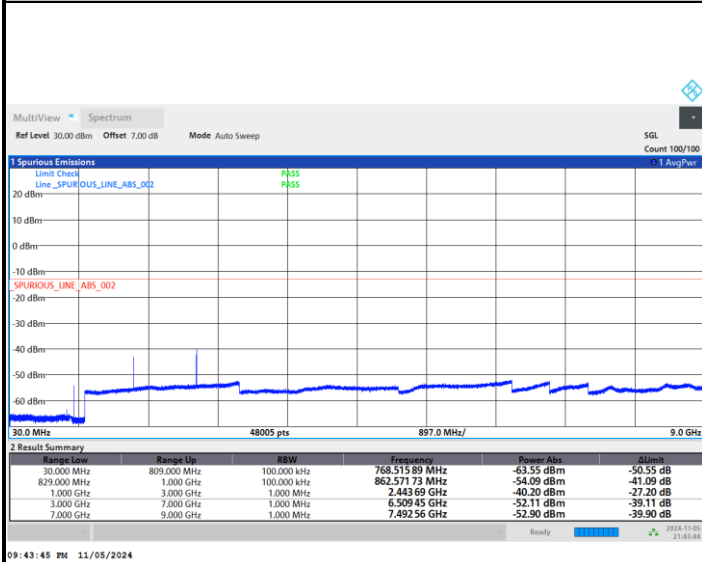
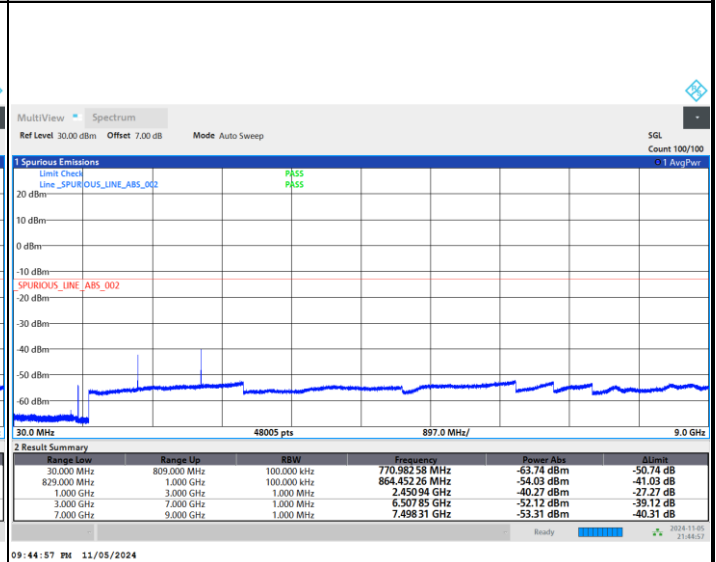
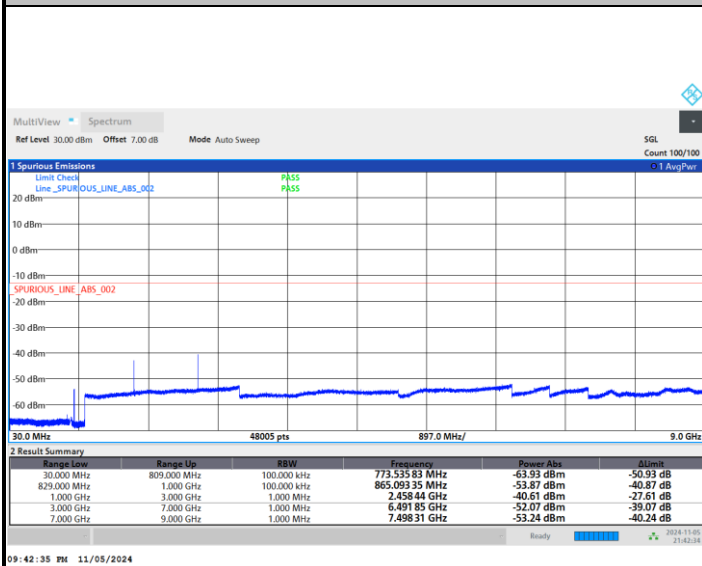
Middle MASK



09:51:40 PM 11/05/2024

**Emission masks – Out of band emissions**

FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel**Middle Channel****Highest Channel**

Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0047	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0001	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0061	PASS
40	Normal Voltage	0.0107	
30	Normal Voltage	0.0120	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0106	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0129	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0087	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

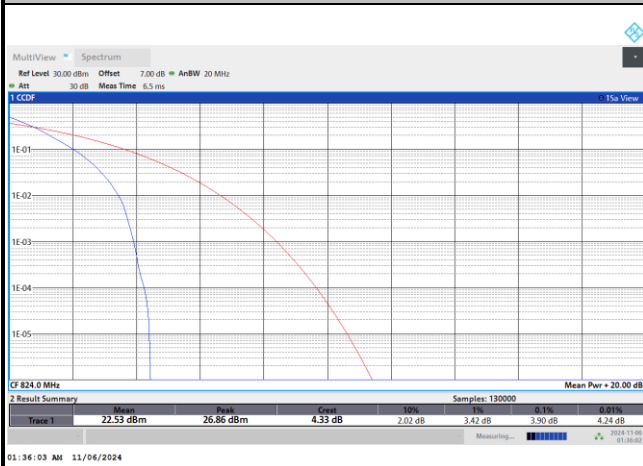
**FR1 n26 Part90s Straddle Channel****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.90	4.56	5.52	5.86	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.68				PASS

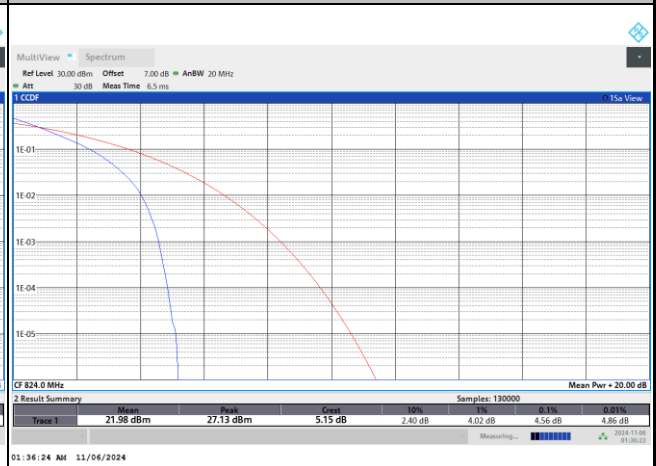


FR1 n26 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

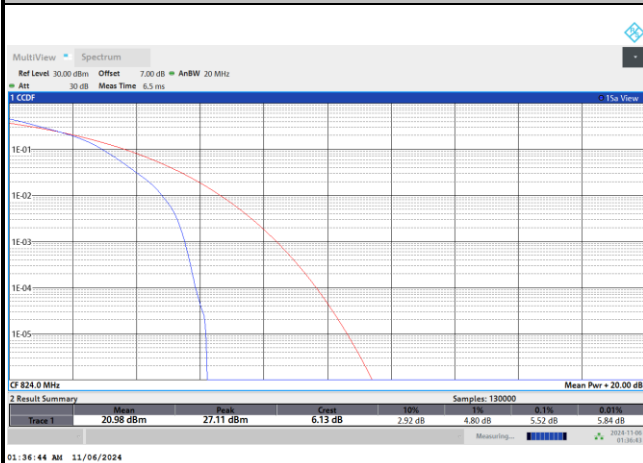
PI/2 BPSK



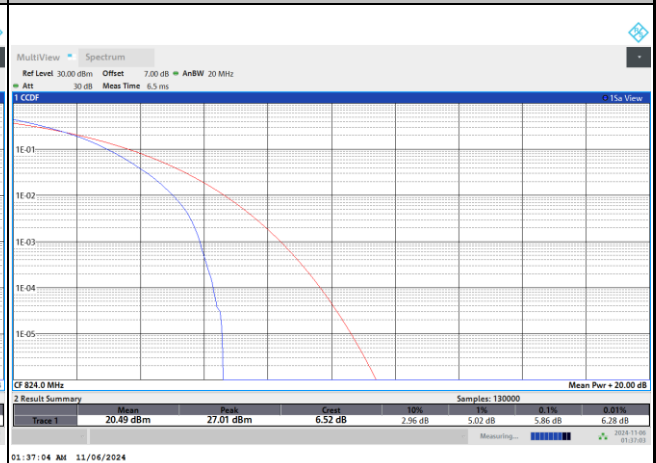
QPSK



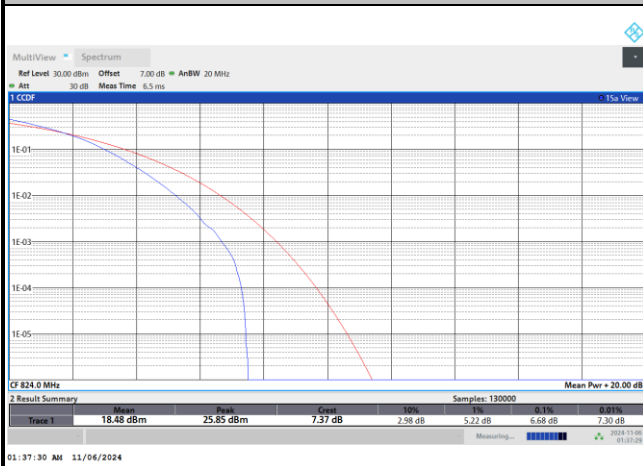
16QAM



64QAM



256QAM



**26dB Bandwidth**

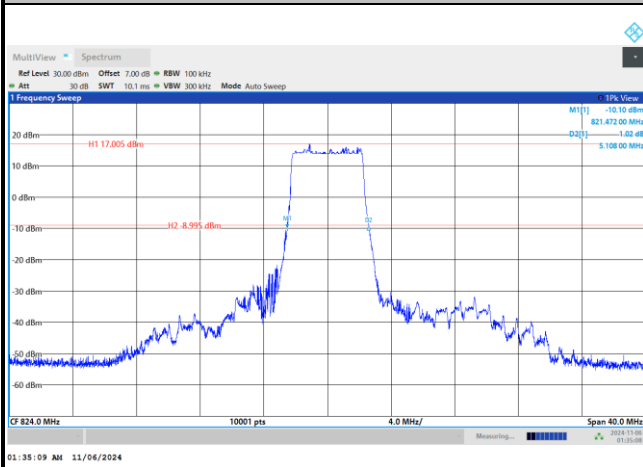
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.10		9.82		14.56		19.36	

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.31	5.23	10.31	10.26	15.34	15.34	20.47	20.60
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.25	5.21	10.18	10.31	15.30	15.30	20.46	20.42



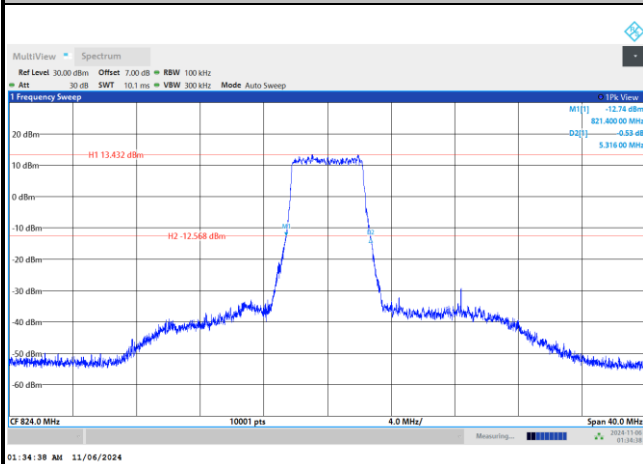
FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

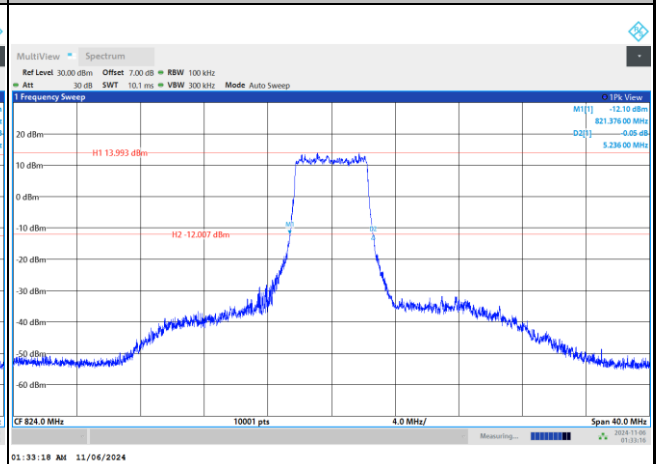


FR1 n26 / 5MHz / CP OFDM / Middle Channel / Full RB

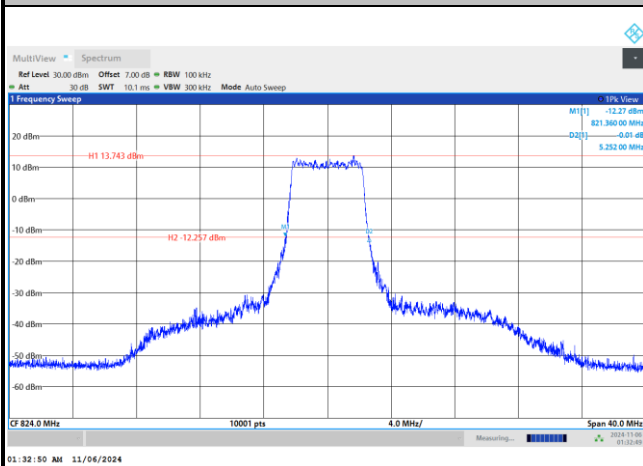
QPSK



16QAM



64QAM



256QAM

