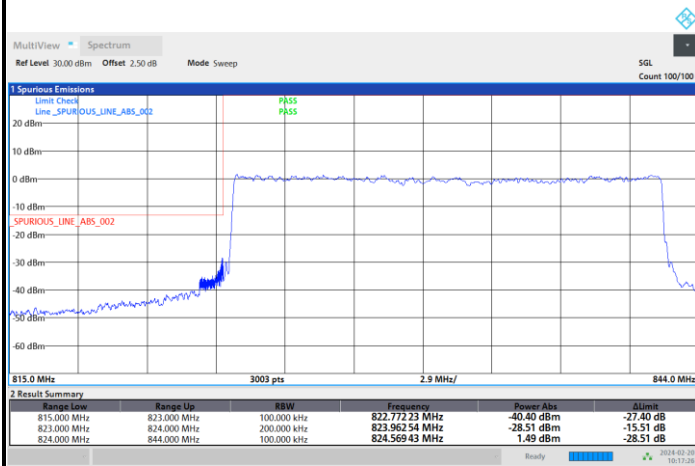


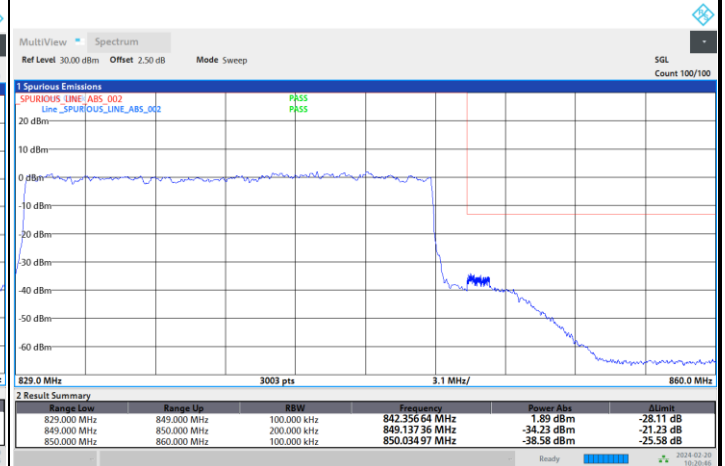


FR1 n26 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

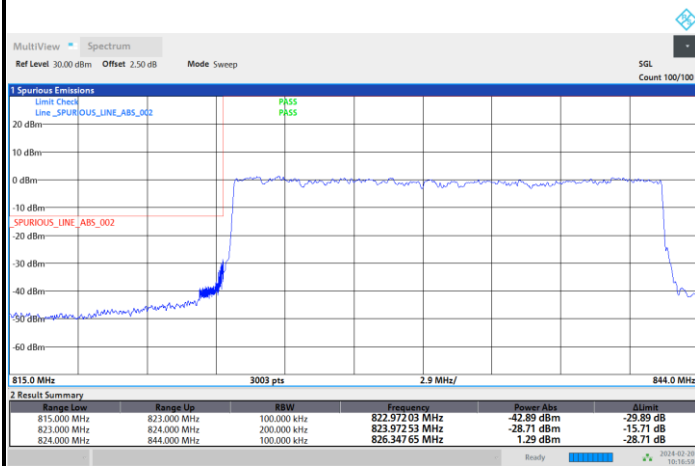


Highest Band Edge

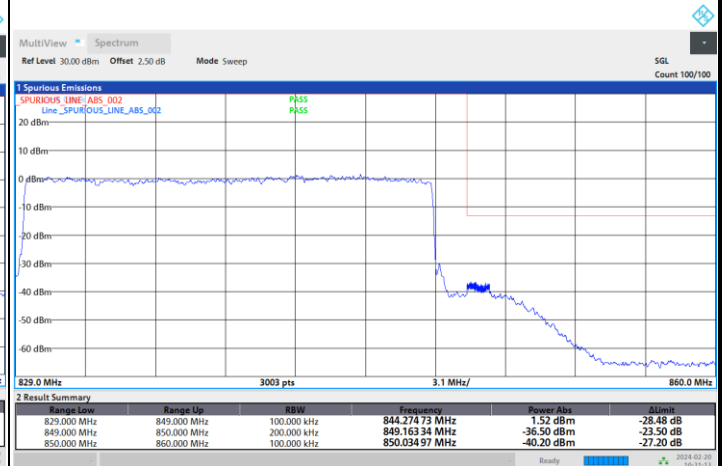


FR1 n26 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge



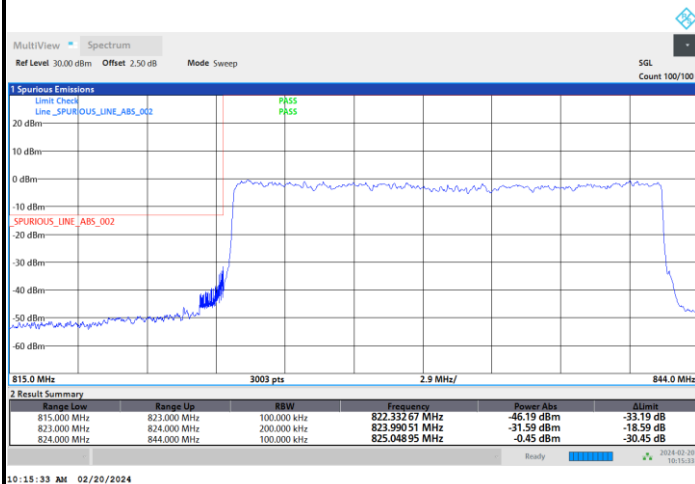
Highest Band Edge



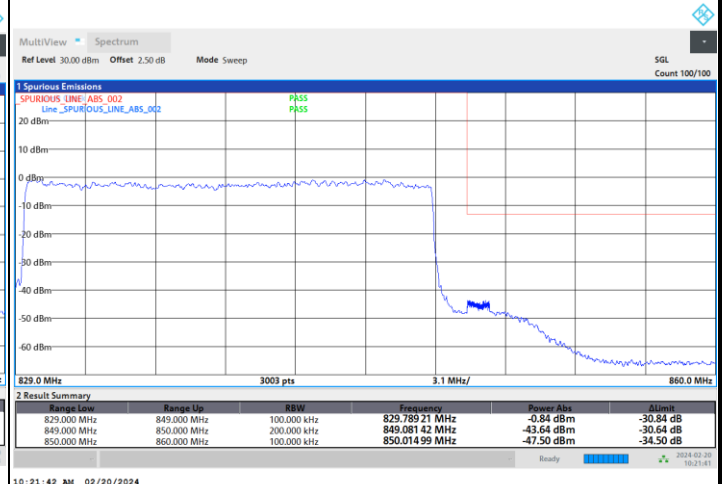


FR1 n26 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

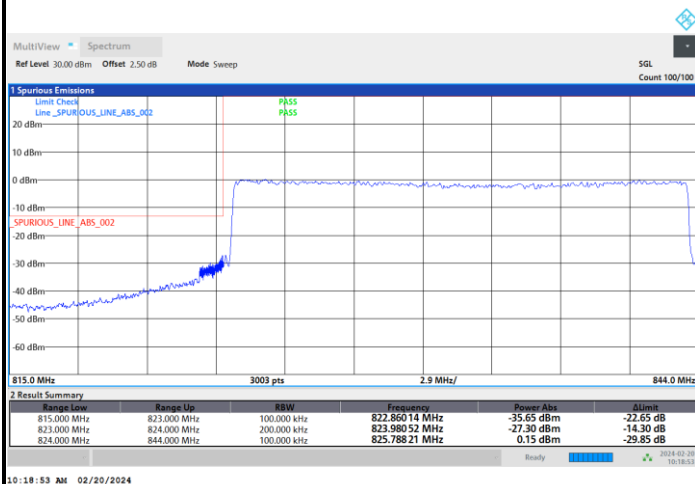


Highest Band Edge



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

Lowest Band Edge



Highest Band Edge

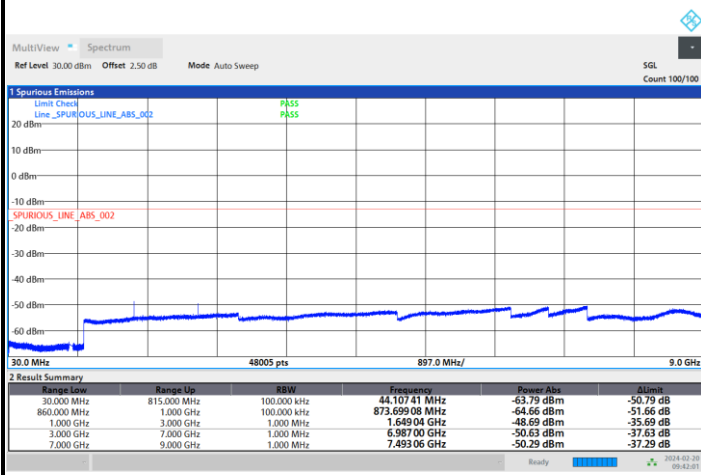




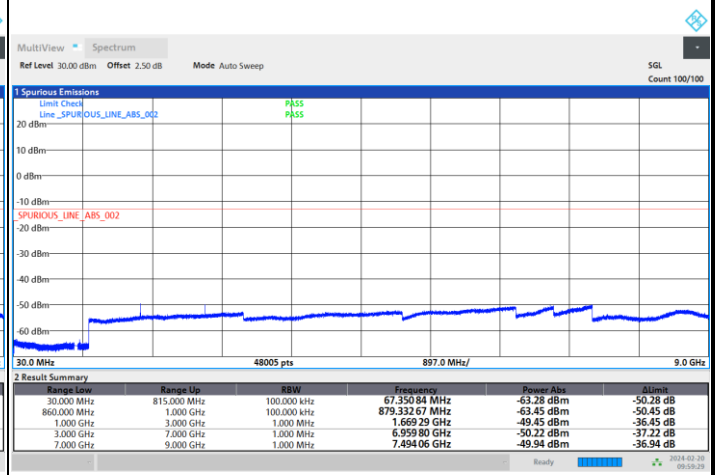
Conducted Spurious Emission

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

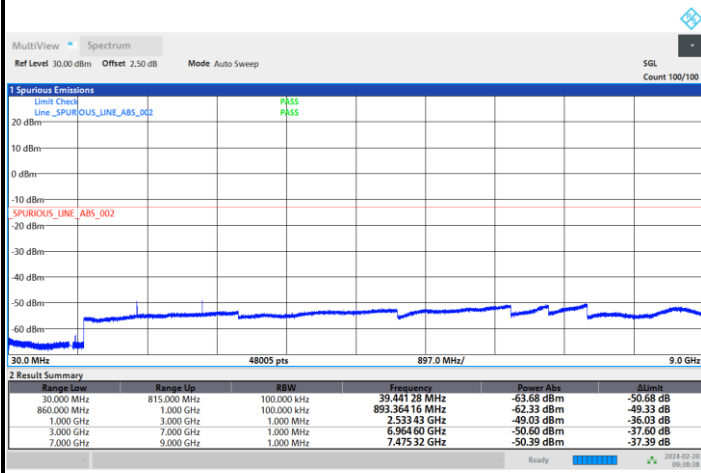
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

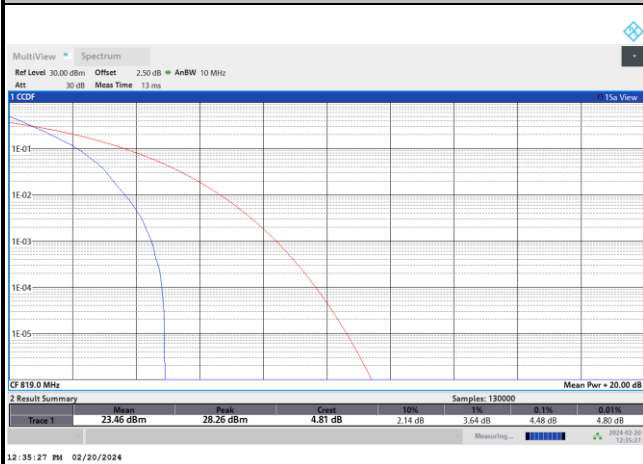
**Part90S FR1 n26****Peak-to-Average Ratio**

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	4.48	5.00	6.00	6.44	PASS
Mode	FR1 n26 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.70				PASS

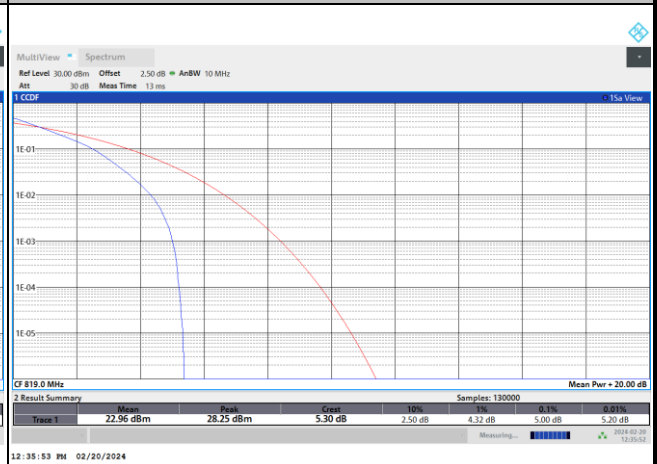


FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

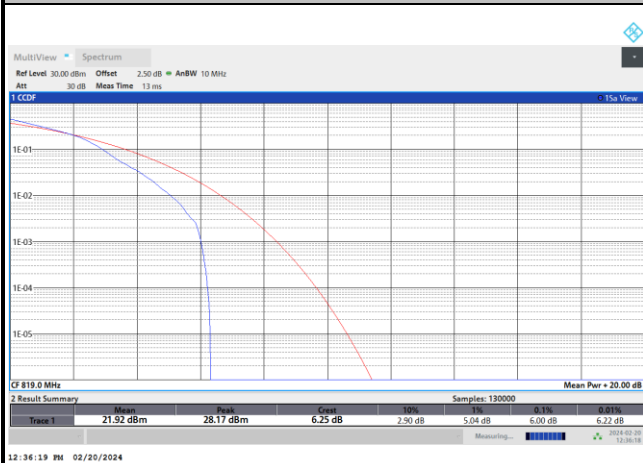
PI/2 BPSK



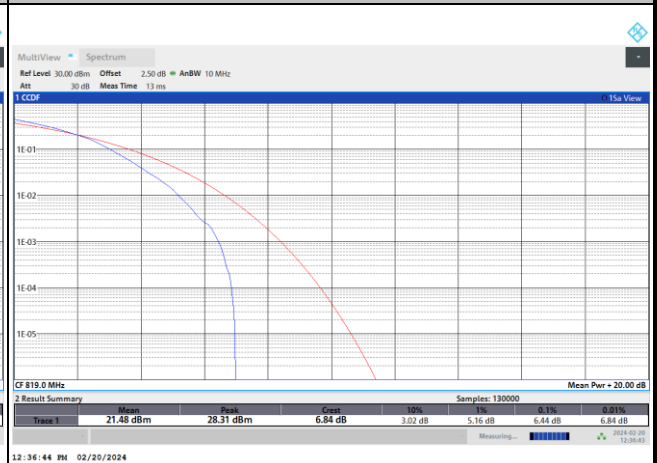
QPSK



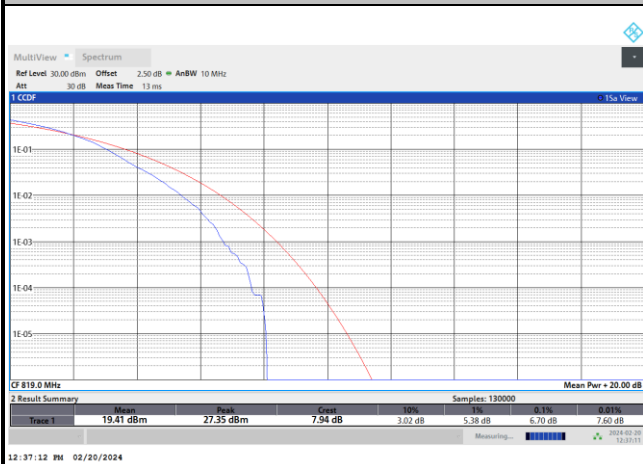
16QAM



64QAM



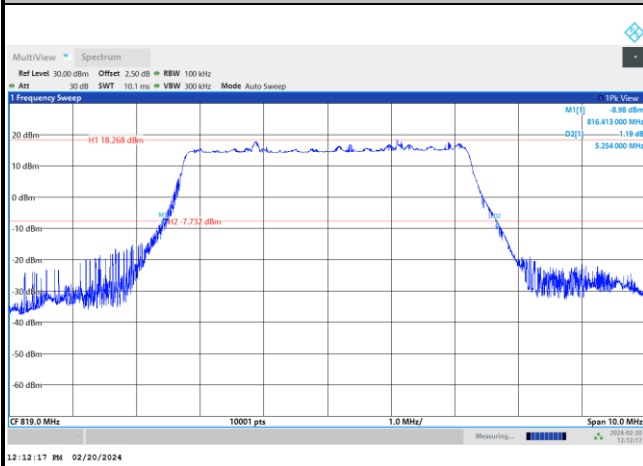
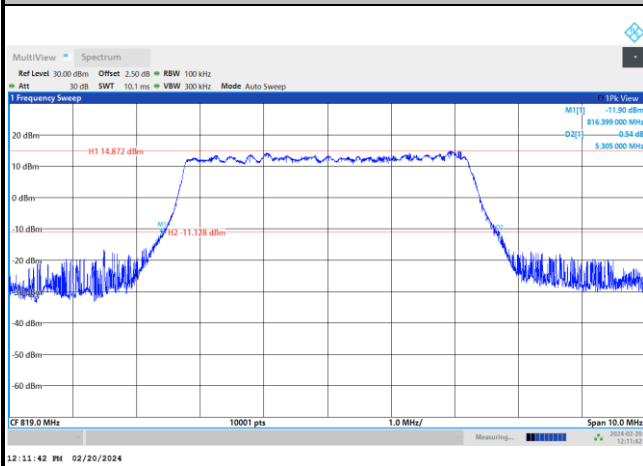
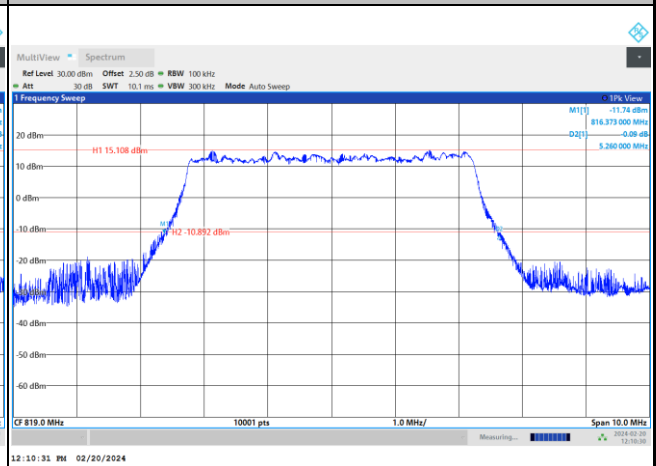
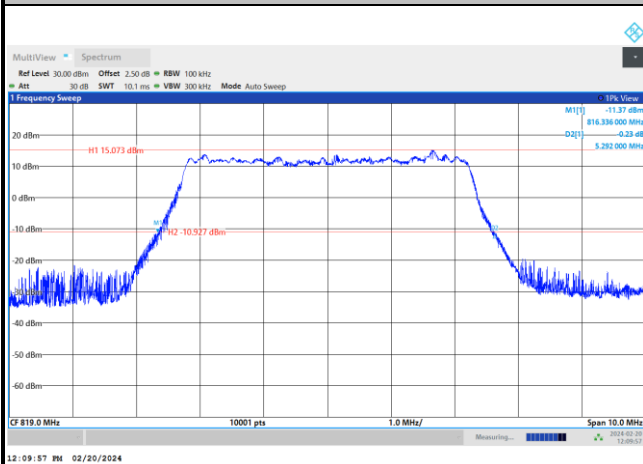
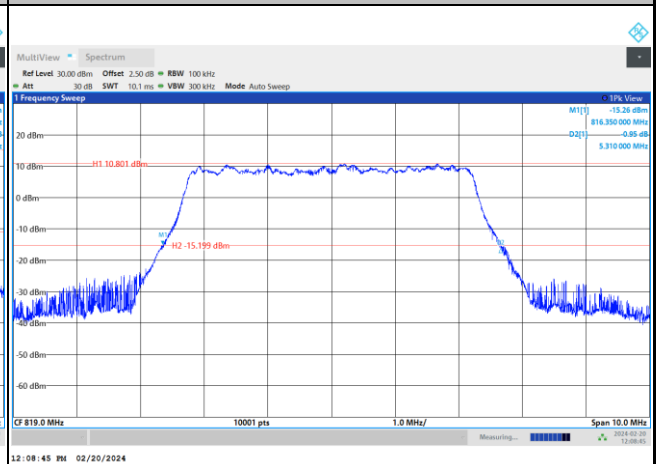
256QAM



**26dB Bandwidth**

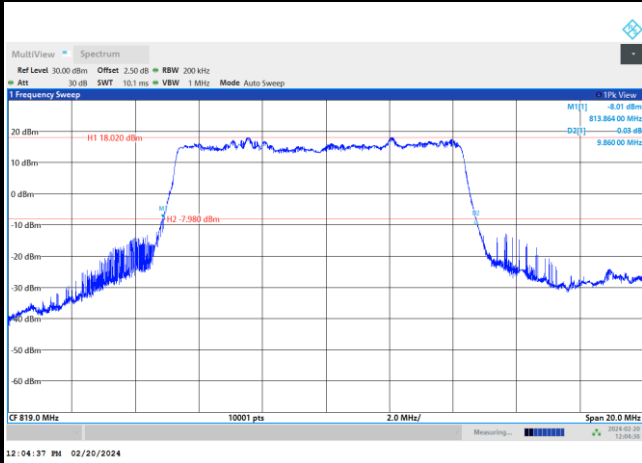
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.25		9.86					

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.30	5.26	10.49	10.36				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.29	5.31	10.34	10.32				

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


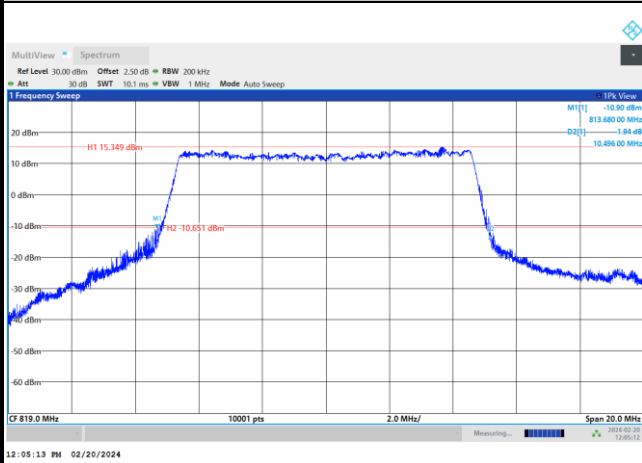
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

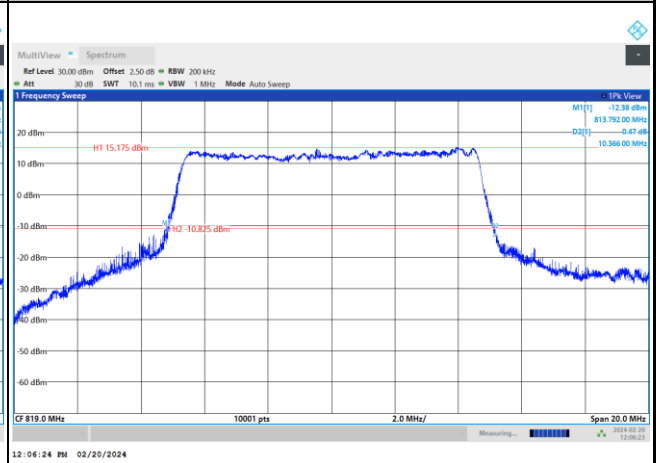


FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB

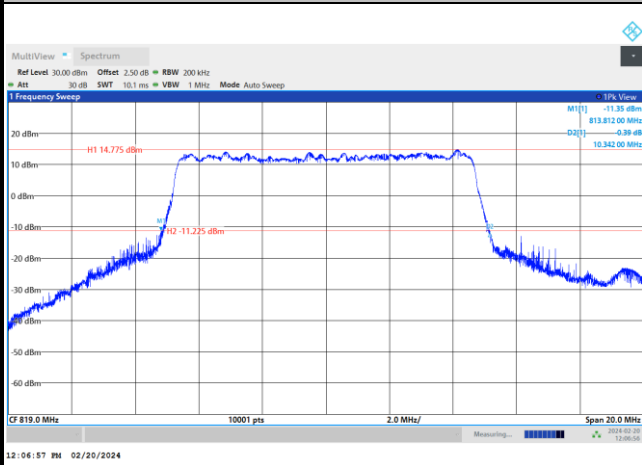
QPSK



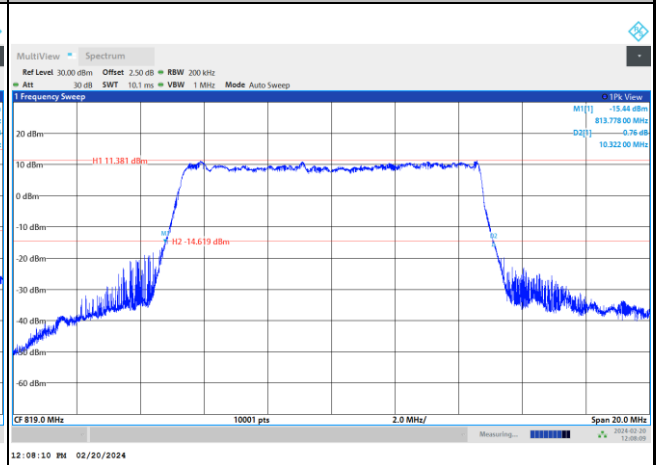
16QAM



64QAM



256QAM



**Occupied Bandwidth**

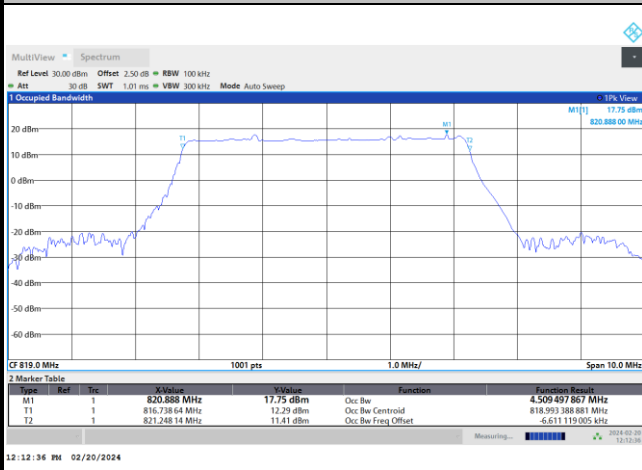
Mode	FR1 n26 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.50		9.00					

Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.54	4.52	9.35	9.37				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.54	4.52	9.34	9.38				



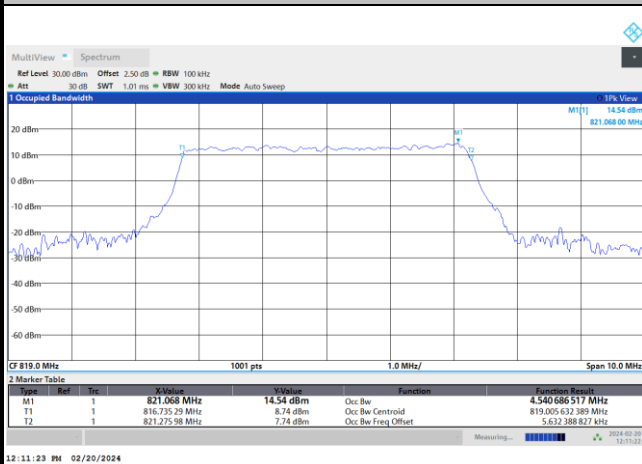
FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

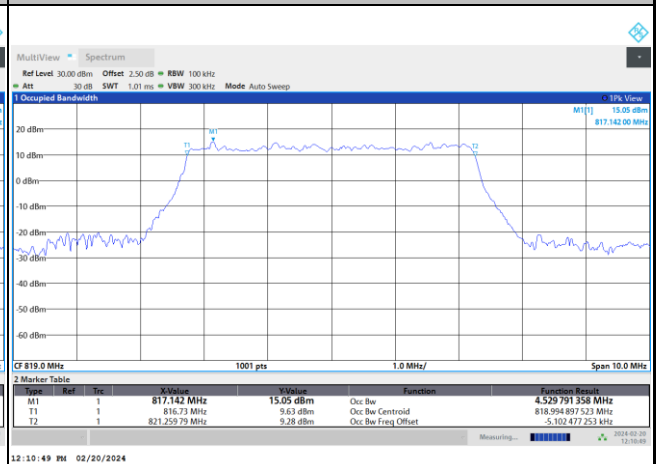


FR1 n26 / 5MHz / CP OFDM / Middle Channel / Full RB

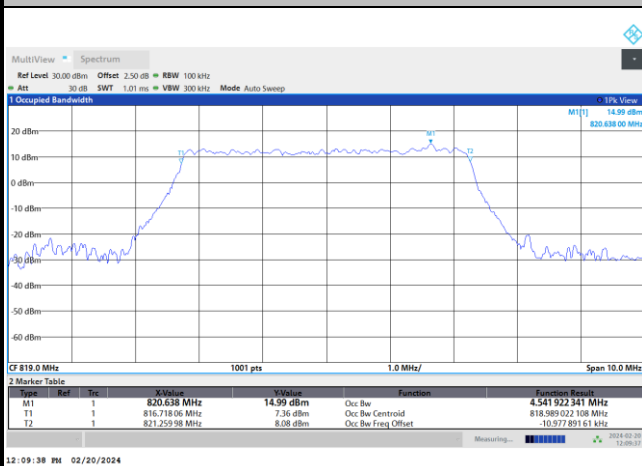
QPSK



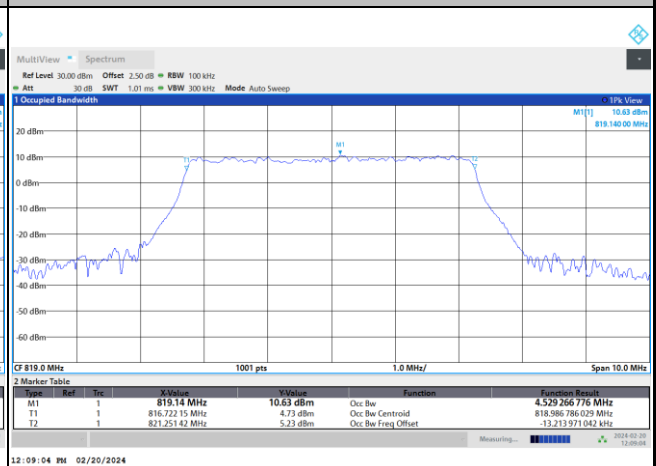
16QAM



64QAM



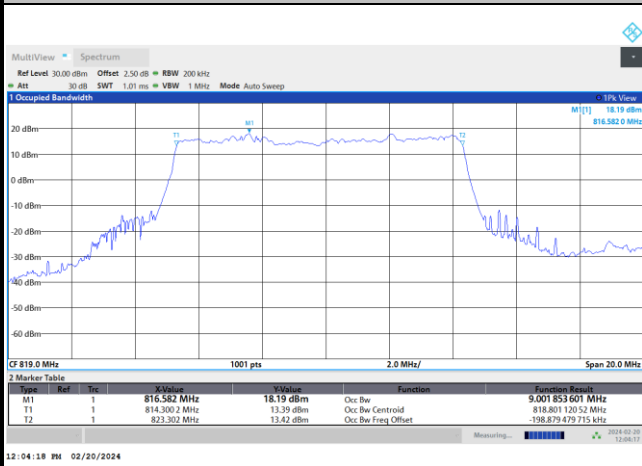
256QAM





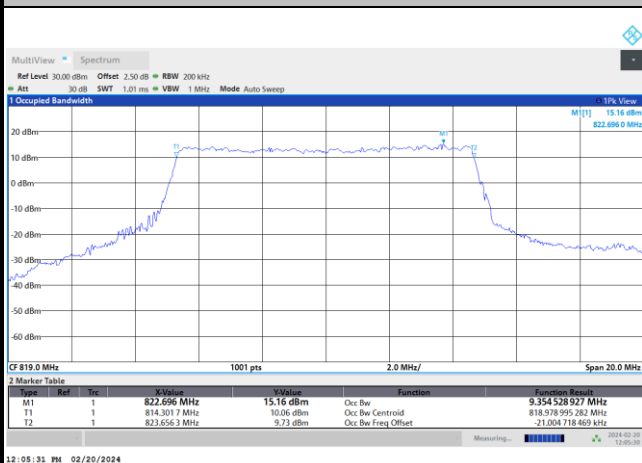
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

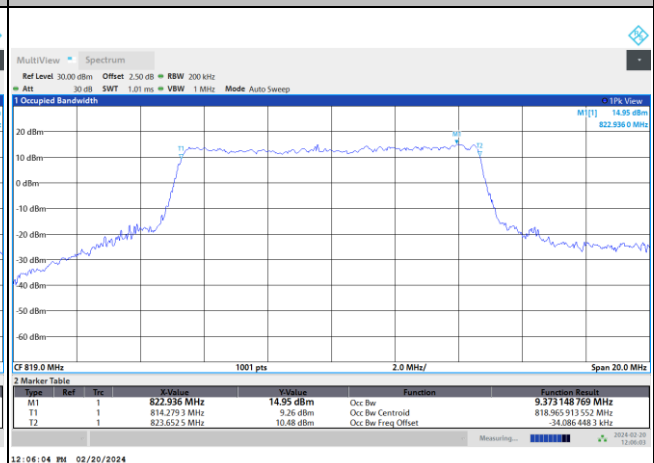


FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB

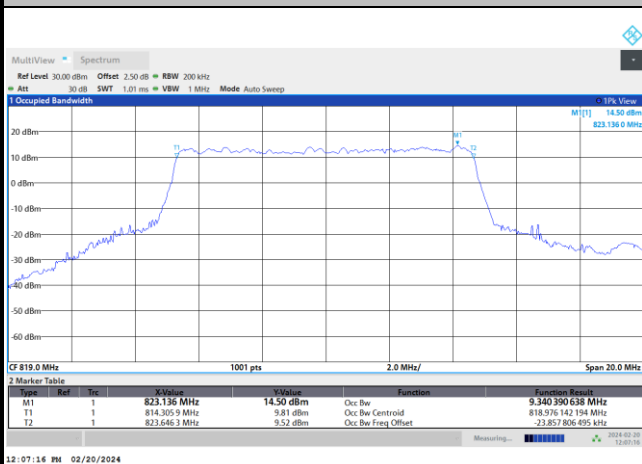
QPSK



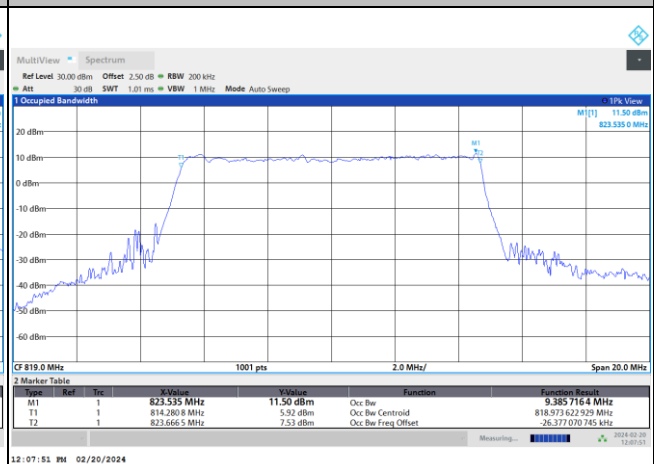
16QAM



64QAM



256QAM

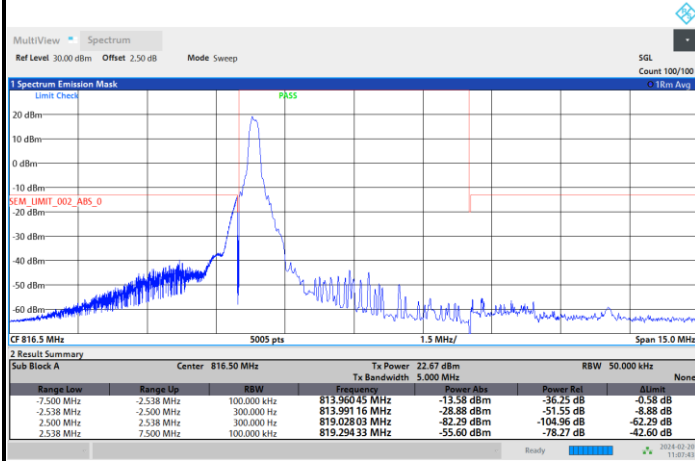




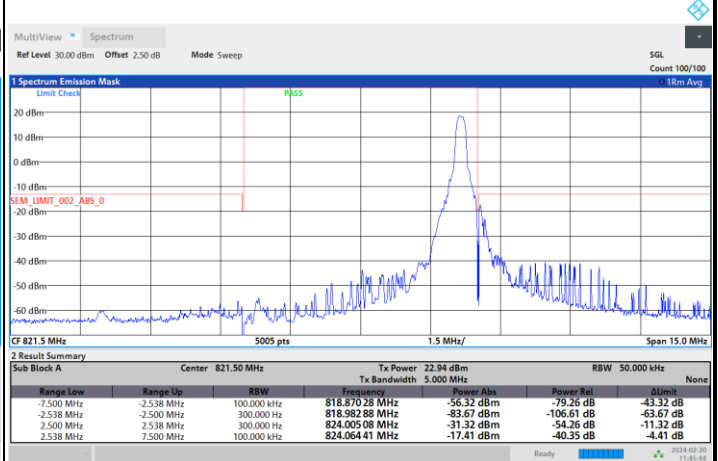
Emission masks – In-band emissions

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

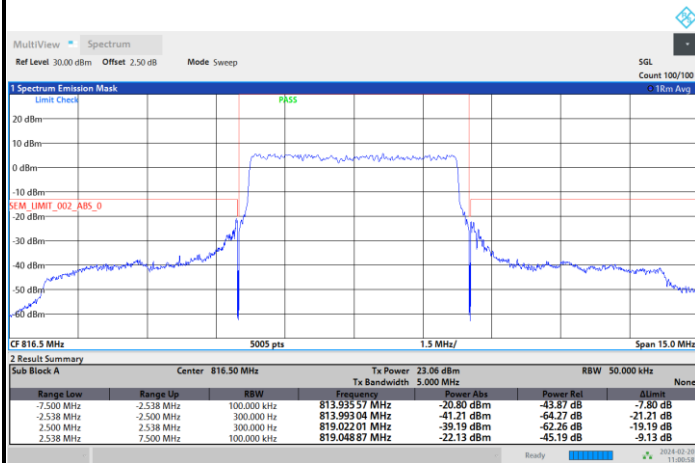
Lowest MASK / 1RB0



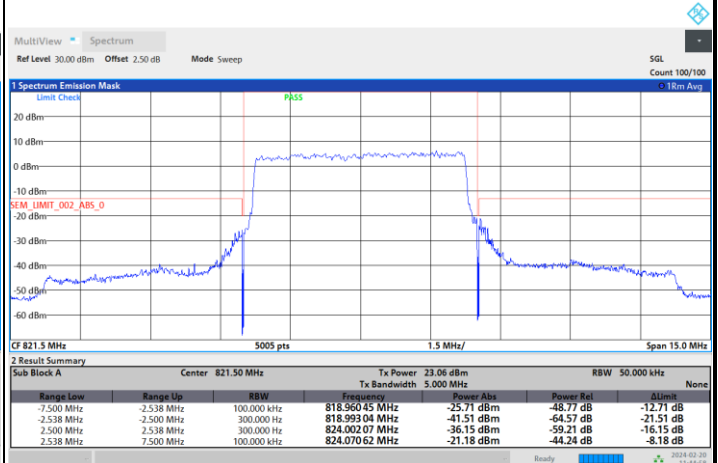
Highest MASK / 1RBmax



Lowest MASK / Full RB



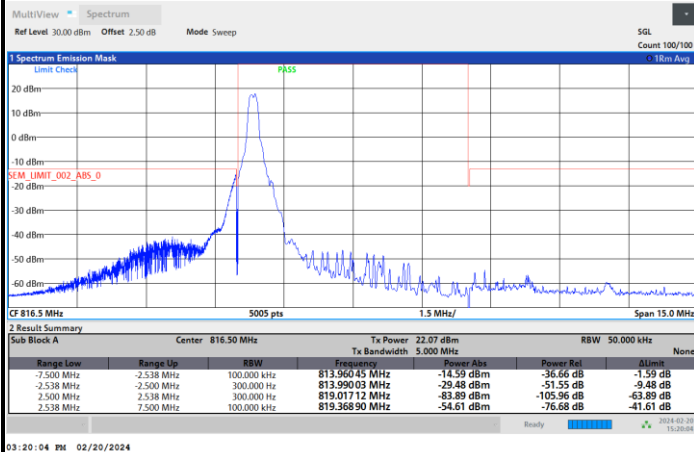
Highest MASK / Full RB





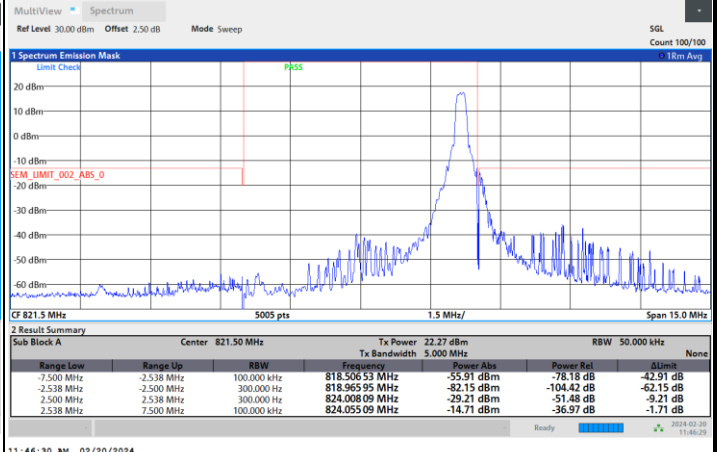
FR1 n26 / 5MHz / DFT-S OFDM / QPSK

Lowest MASK / 1RB0



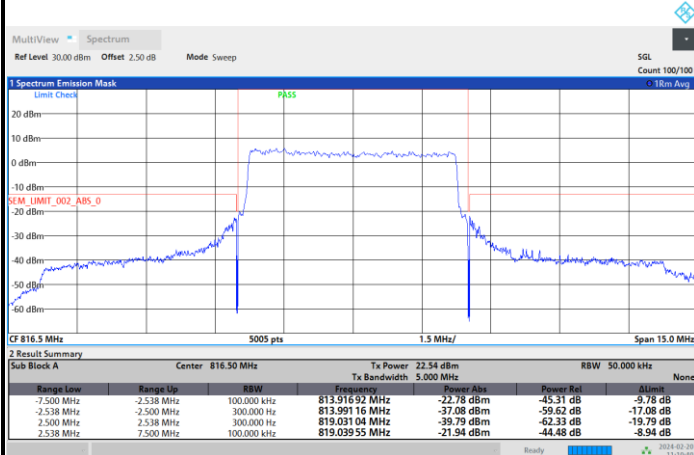
03:20:04 PM 02/20/2024

Highest MASK / 1RBmax



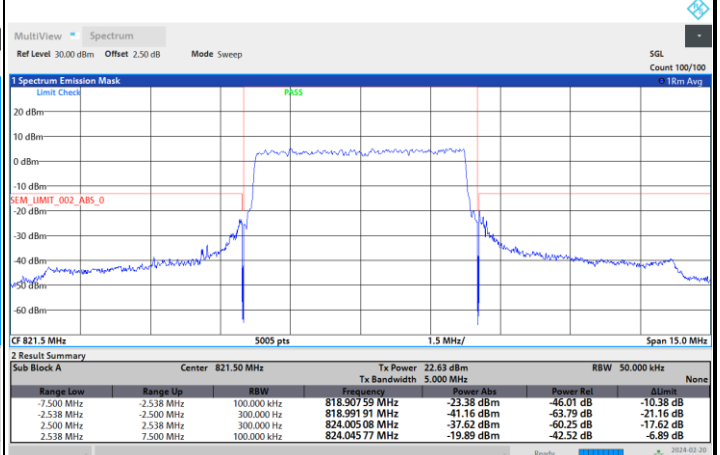
11:46:30 AM 02/20/2024

Lowest MASK / Full RB



11:10:40 AM 02/20/2024

Highest MASK / Full RB

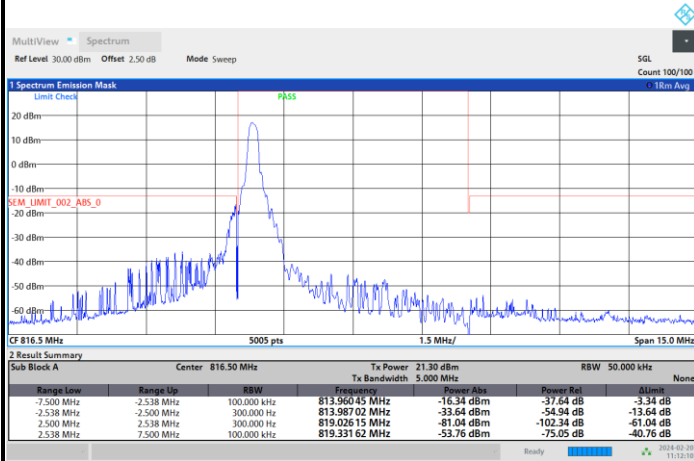


11:47:15 AM 02/20/2024



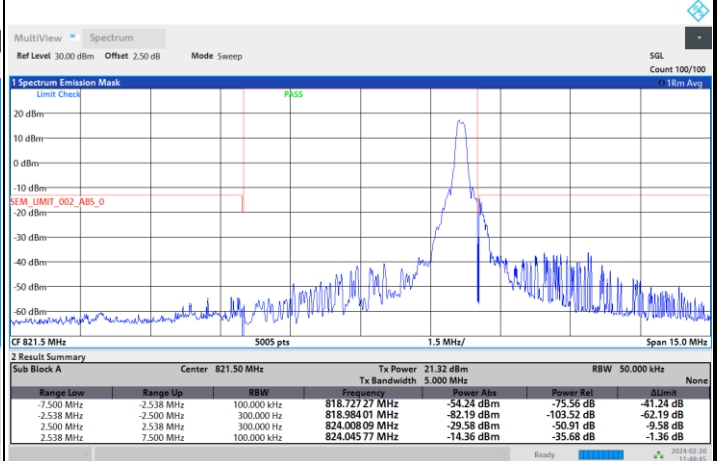
FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

Lowest MASK / 1RB0



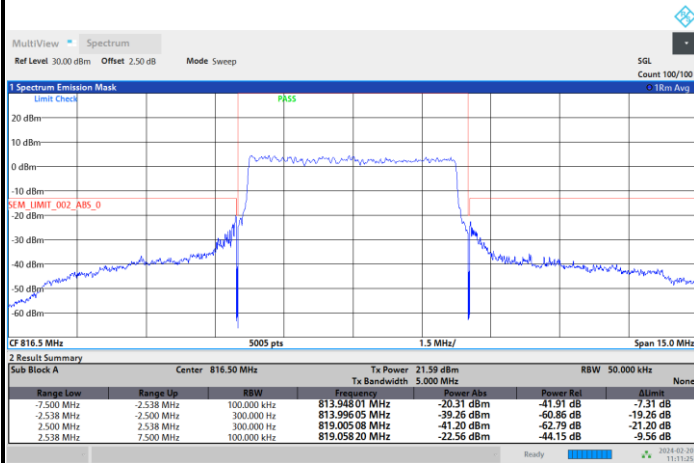
11:12:10 AM 02/20/2024

Highest MASK / 1RBmax



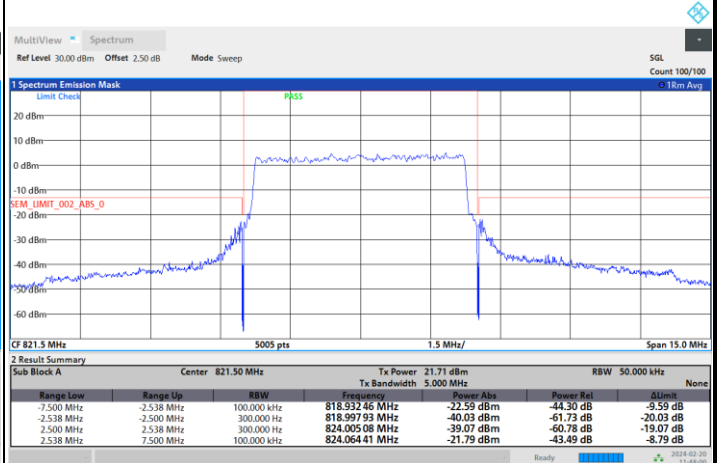
11:48:46 AM 02/20/2024

Lowest MASK / Full RB



11:13:25 AM 02/20/2024

Highest MASK / Full RB

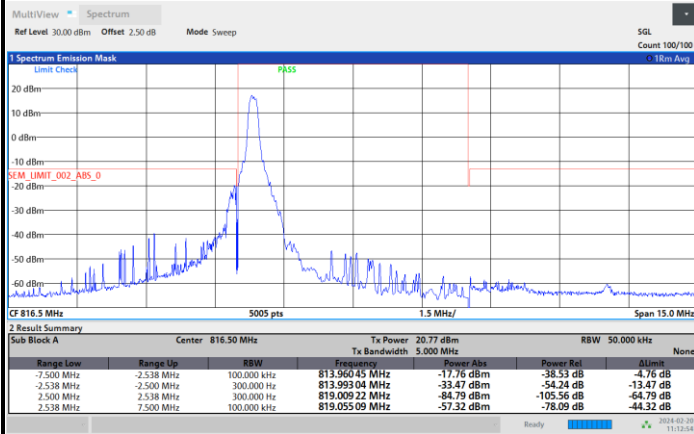


11:48:00 AM 02/20/2024



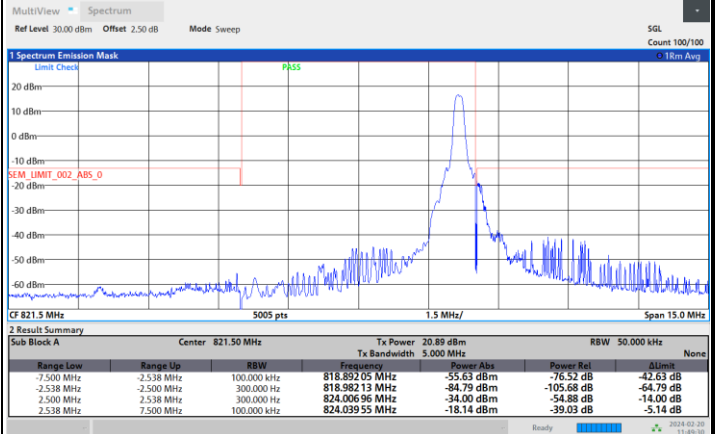
FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

Lowest MASK / 1RB0



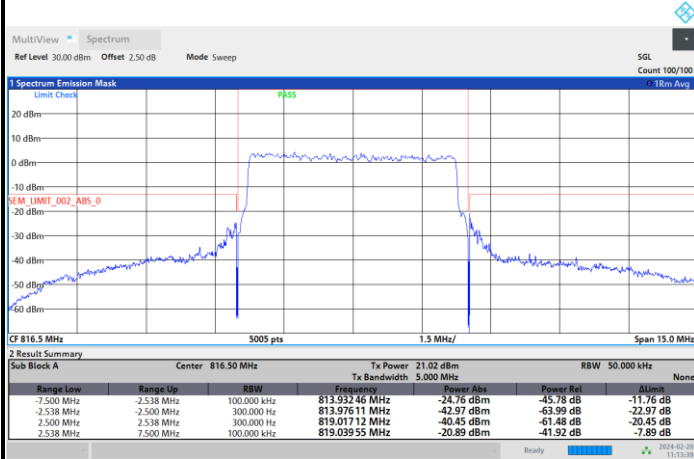
11:12:55 AM 02/20/2024

Highest MASK / 1RBmax



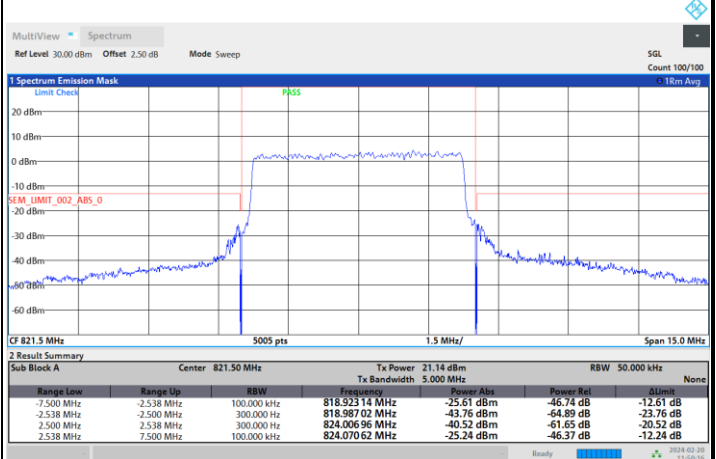
11:49:31 AM 02/20/2024

Lowest MASK / Full RB



11:13:40 AM 02/20/2024

Highest MASK / Full RB

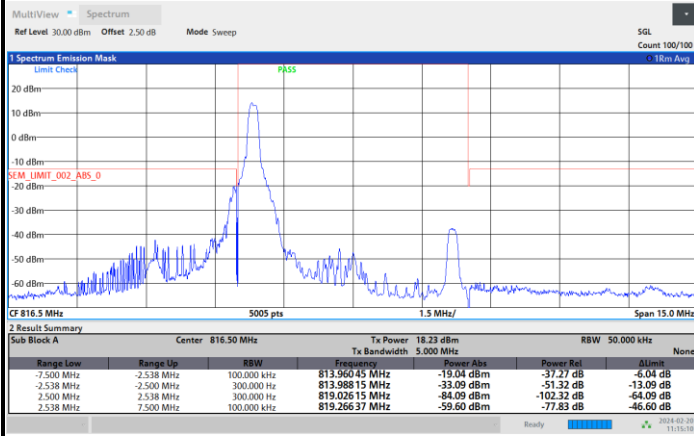


11:50:16 AM 02/20/2024



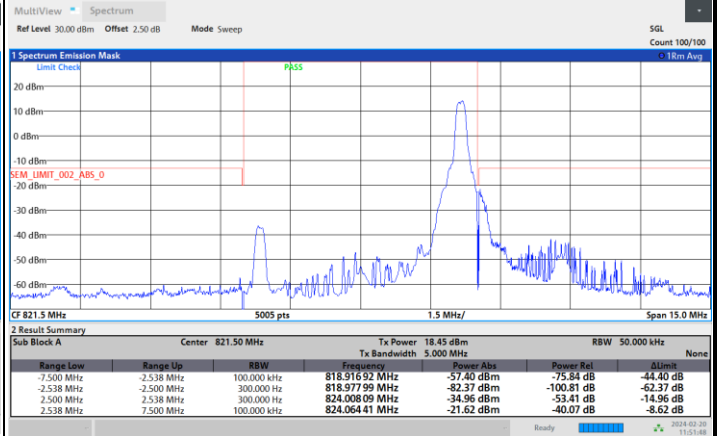
FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

Lowest MASK / 1RB0



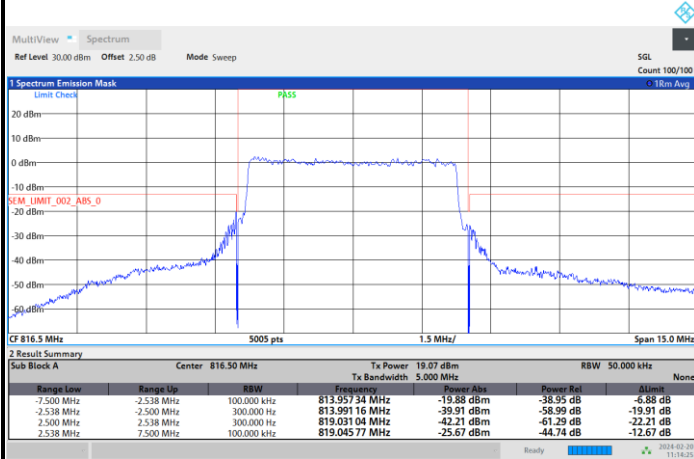
11:15:11 AM 02/20/2024

Highest MASK / 1RBmax



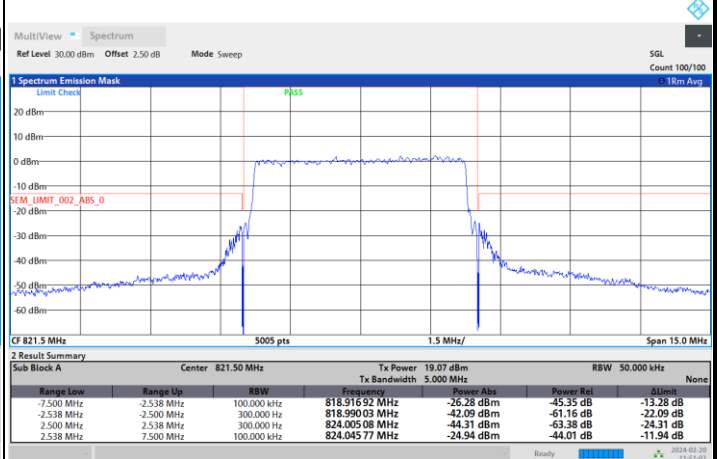
11:51:49 AM 02/20/2024

Lowest MASK / Full RB



11:14:26 AM 02/20/2024

Highest MASK / Full RB

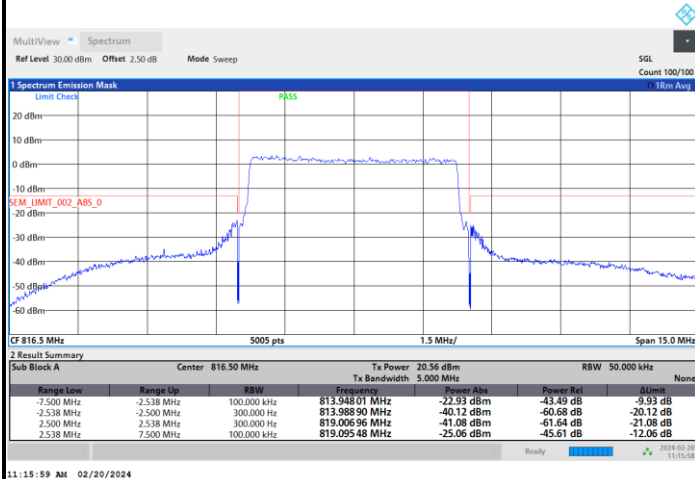


11:51:03 AM 02/20/2024



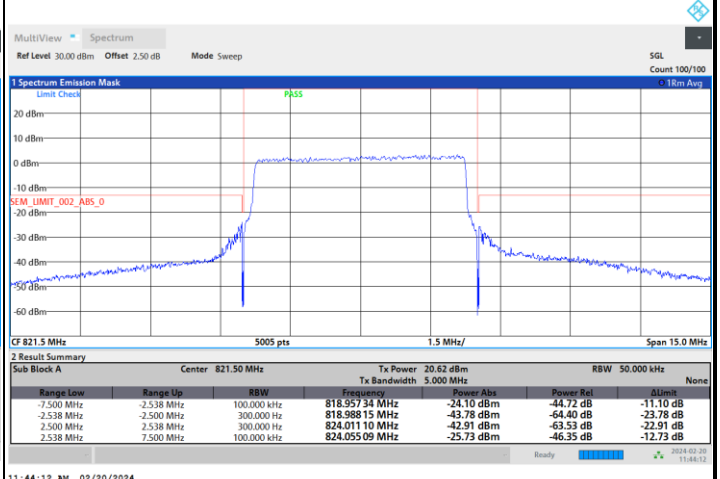
FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB

Lowest MASK



11:15:59 AM 02/20/2024

Highest MASK

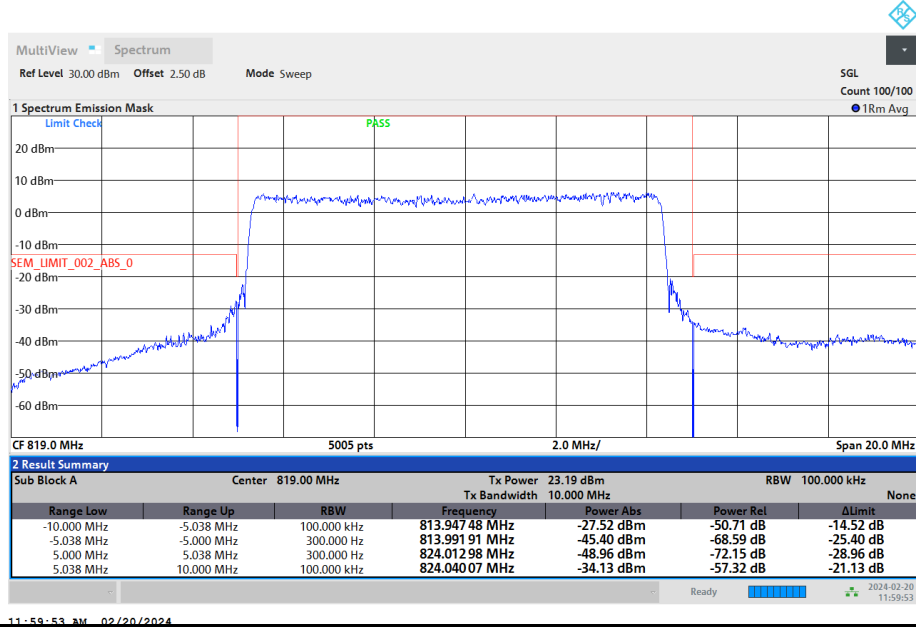


11:44:12 AM 02/20/2024



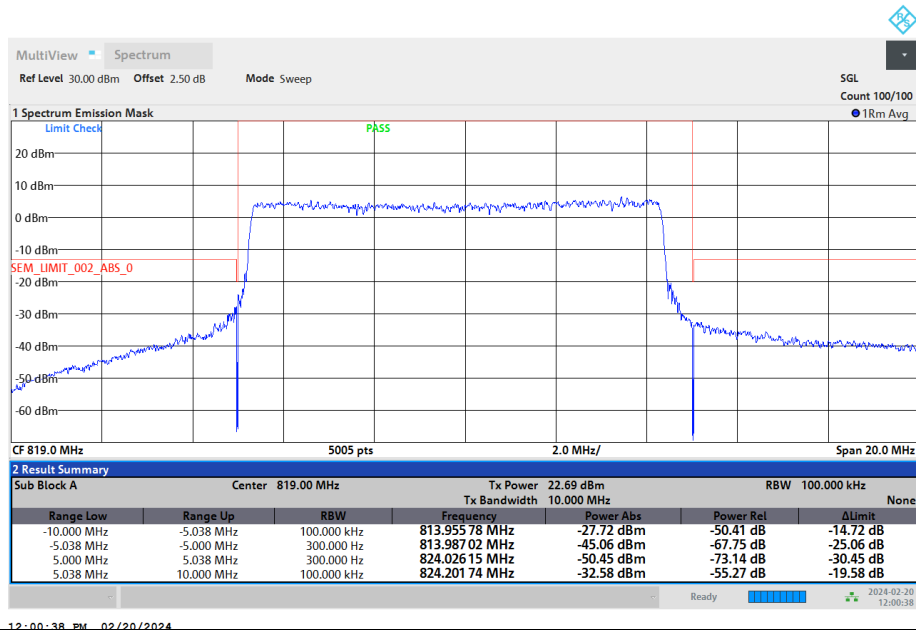
FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Middle MASK / Full RB



FR1 n26 / 10MHz / DFT-s-OFDM / QPSK

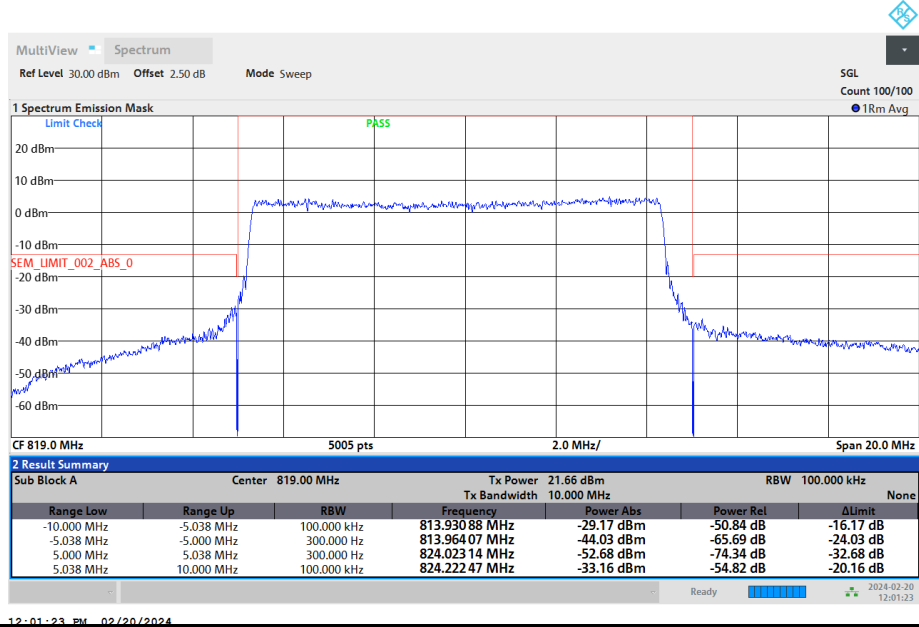
Lowest MASK / Full RB





FR1 n26 / 10MHz / DFT-s-OFDM / 16QAM

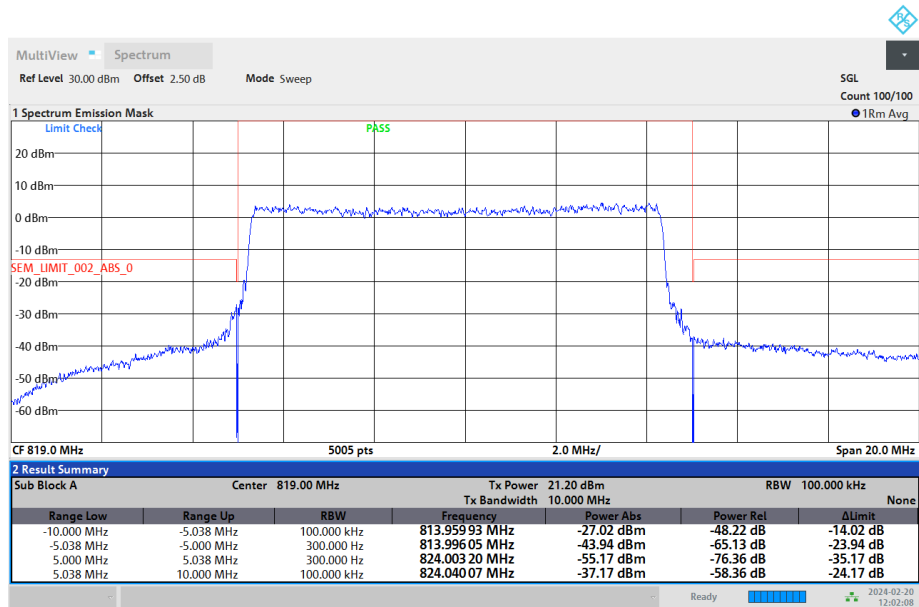
Middle MASK / Full RB



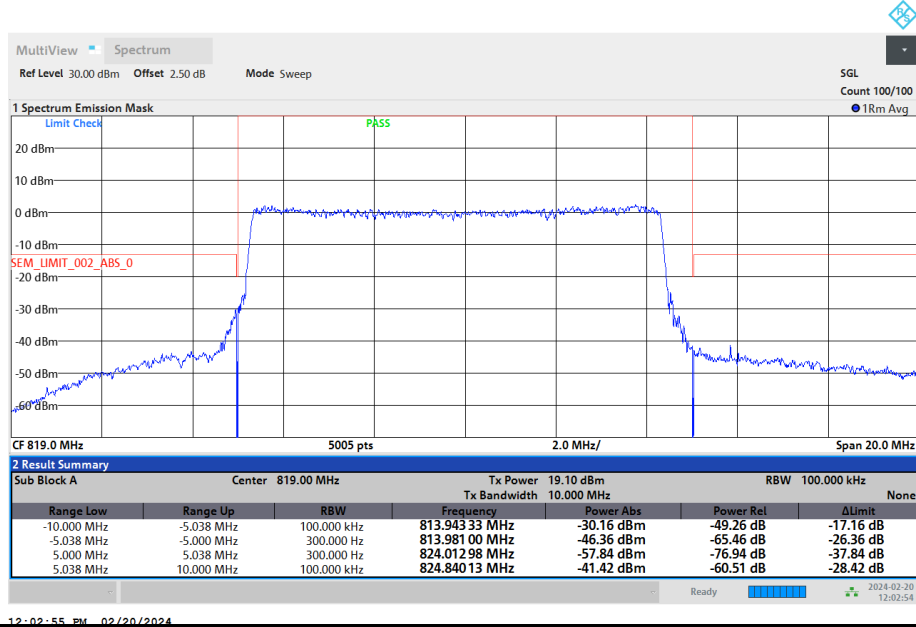
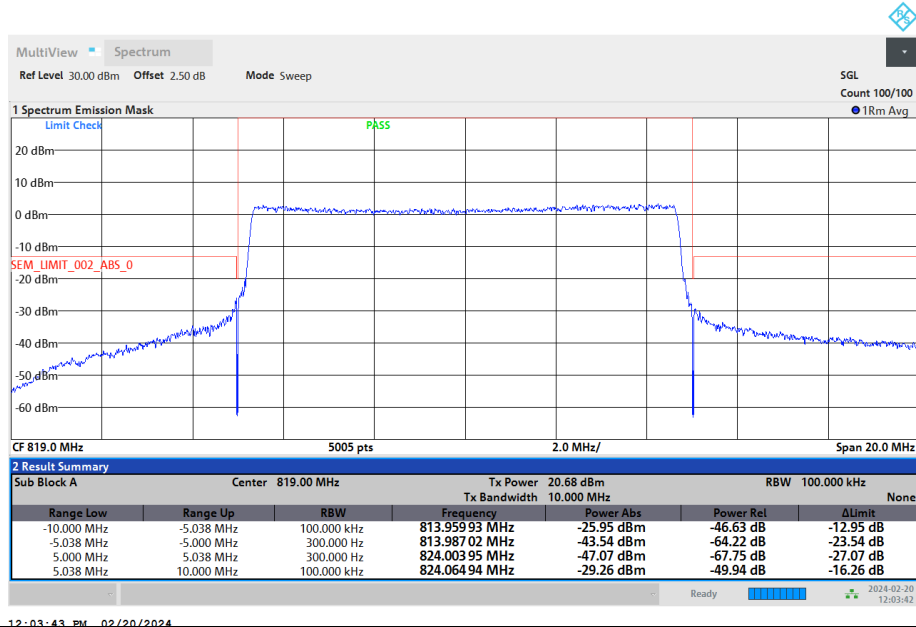
12-01-23 PM 02/20/2024

FR1 n26 / 10MHz / DFT-s-OFDM / 64QAM

Middle MASK / Full RB



12-02-09 PM 02/20/2024

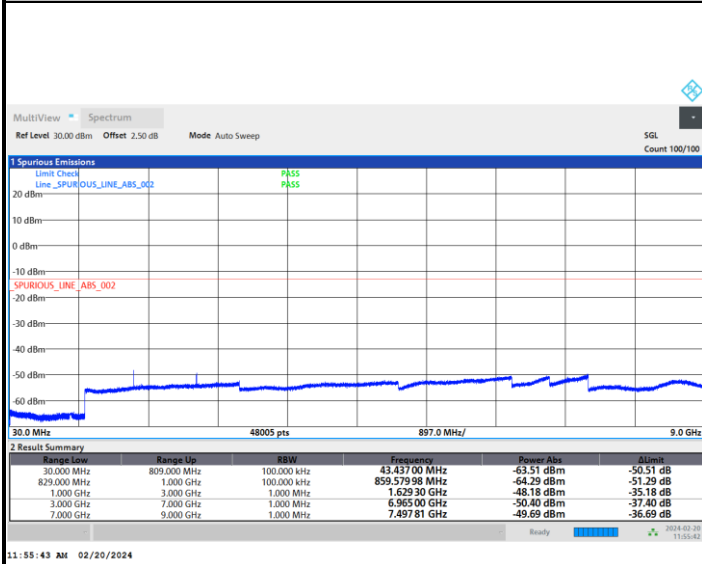
**FR1 n26 / 10MHz / DFT-s-OFDM / 256QAM****Middle MASK / Full RB****FR1 n26 / 10MHz / CP OFDM / QPSK / Full RB****Middle MASK**



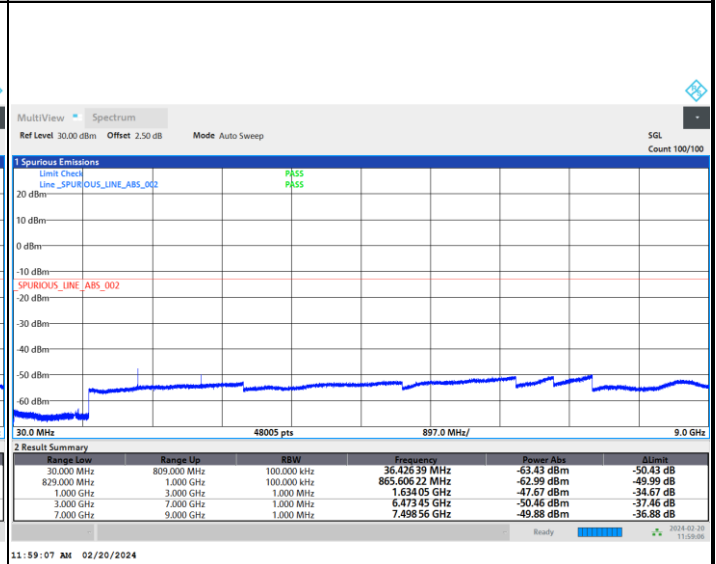
Emission masks – Out of band emissions

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

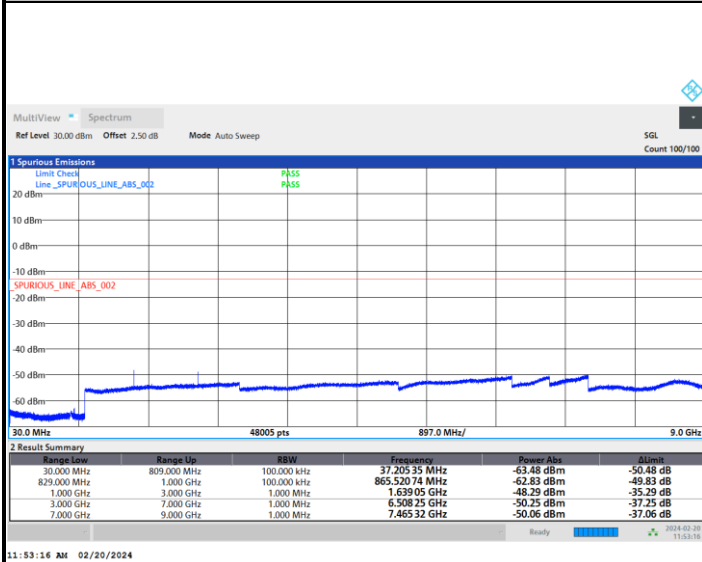
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0030	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (MASKP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

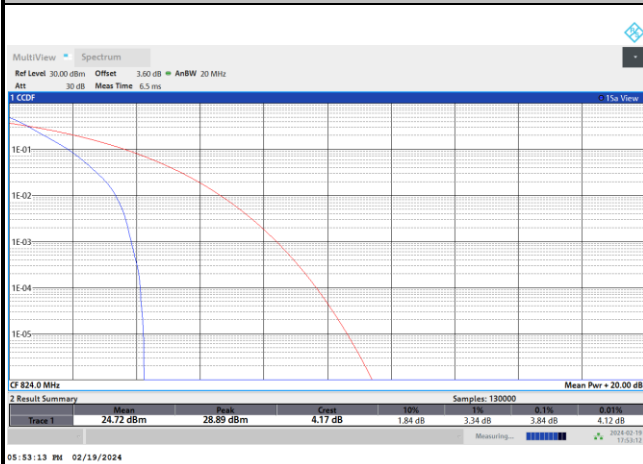
**FR1 n26 Part90s Straddle Channel****Peak-to-Average Ratio**

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	3.84	5.02	5.58	6.12	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.74				PASS

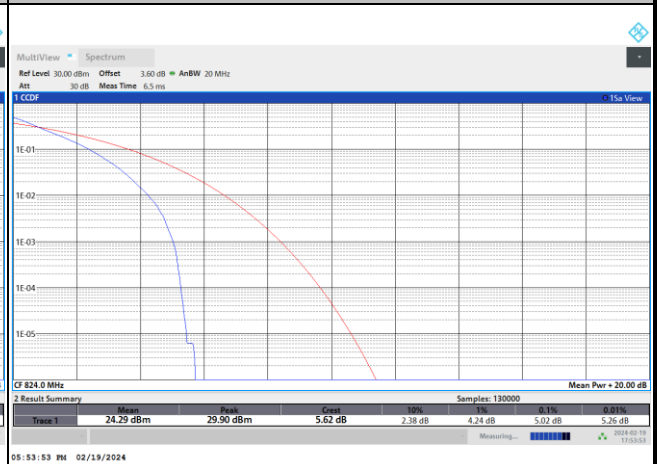


FR1 n26 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

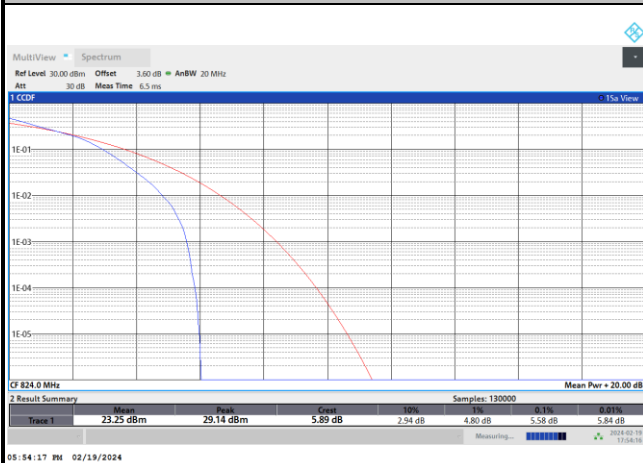
PI/2 BPSK



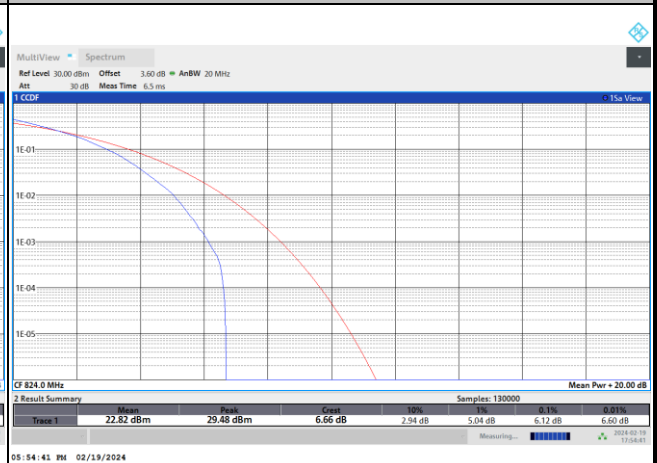
QPSK



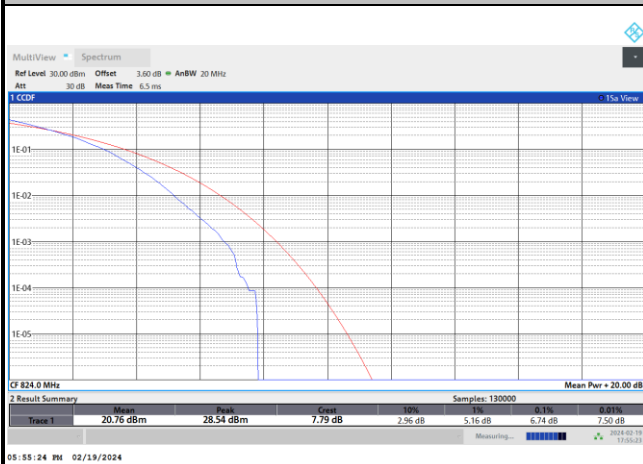
16QAM



64QAM



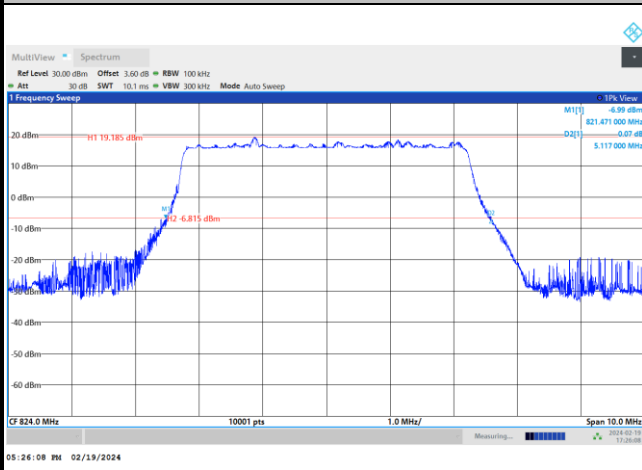
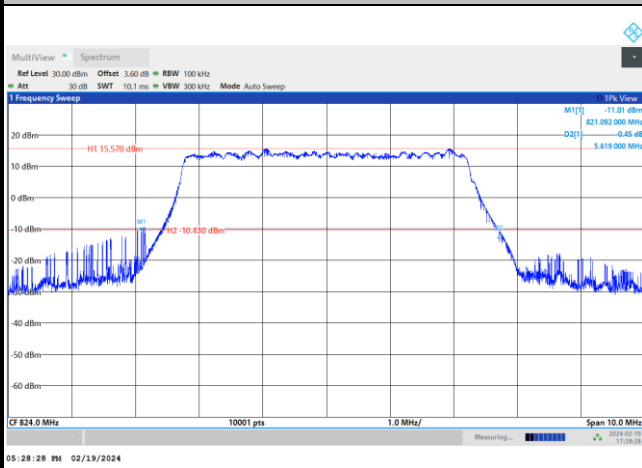
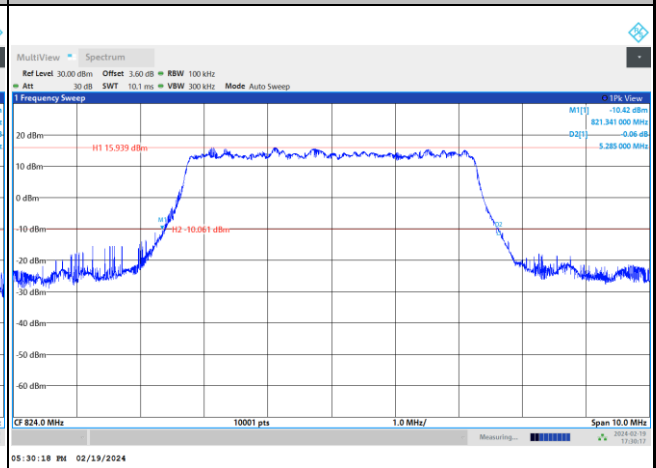
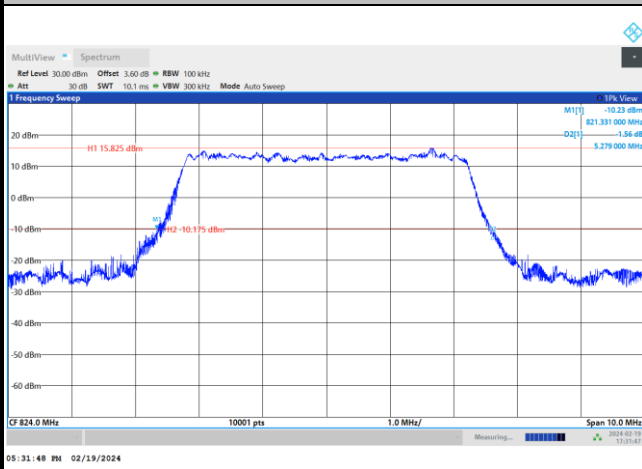
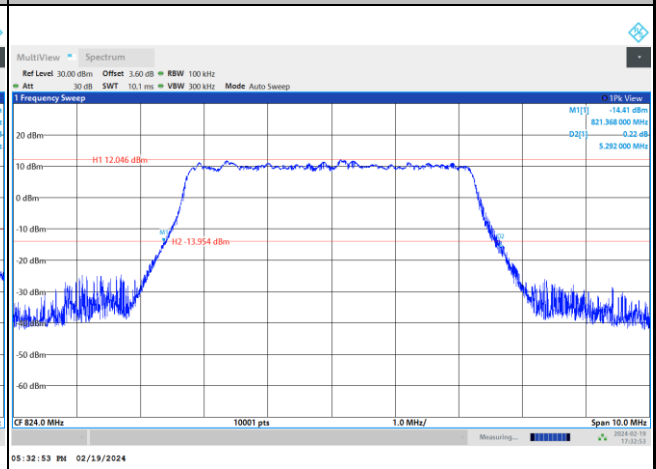
256QAM

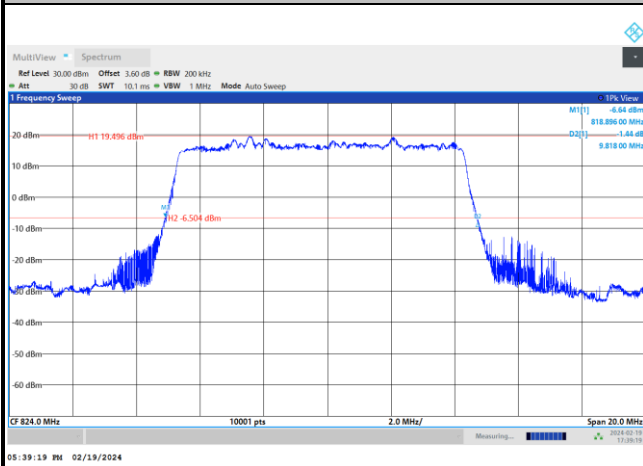
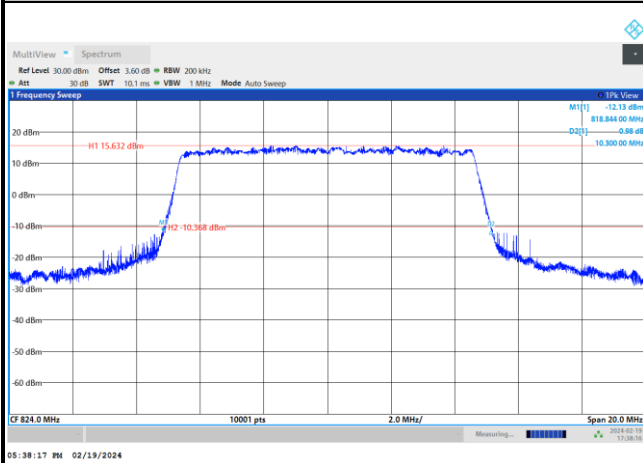
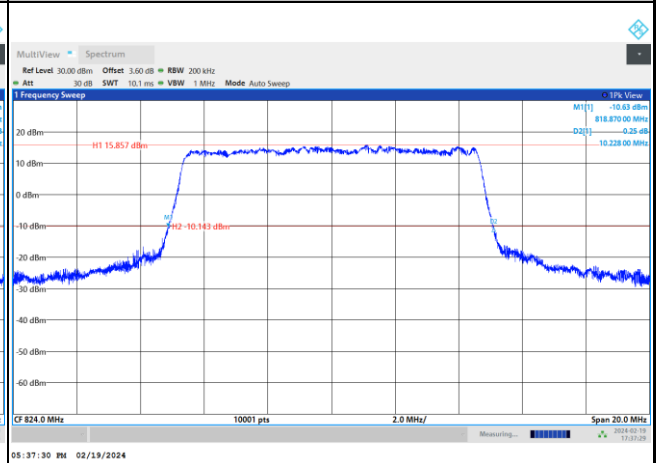
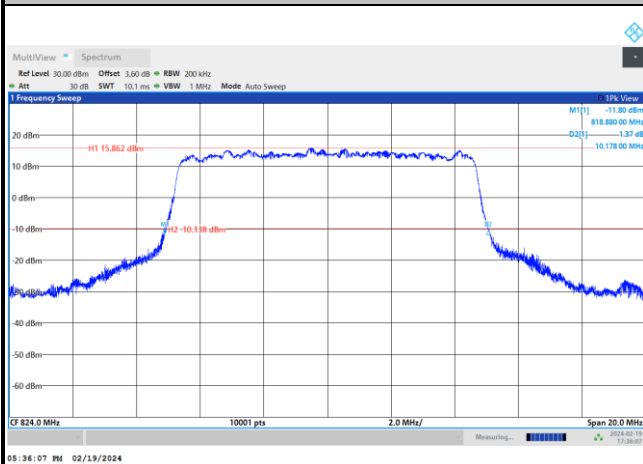
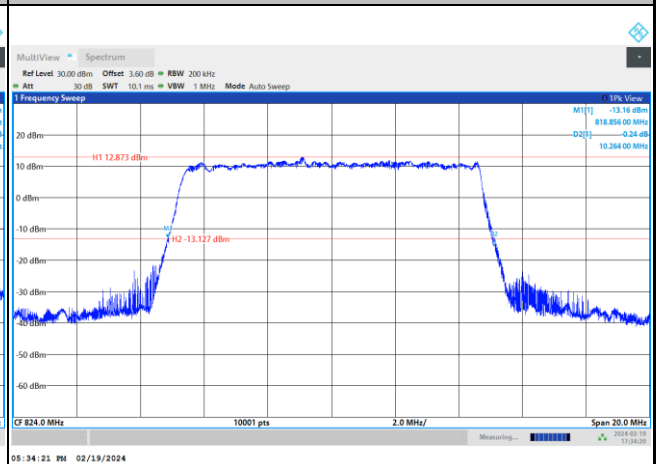


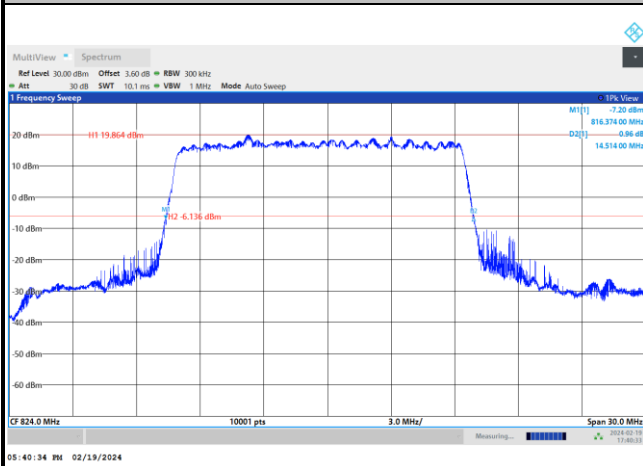
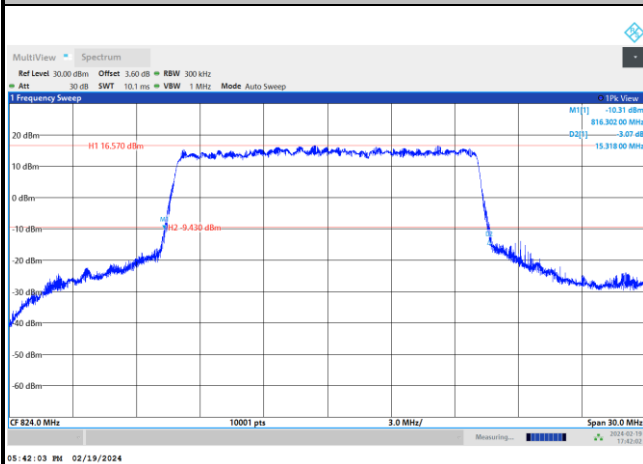
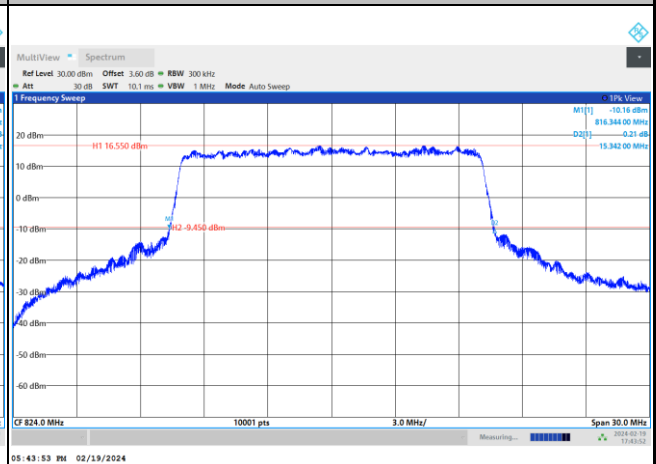
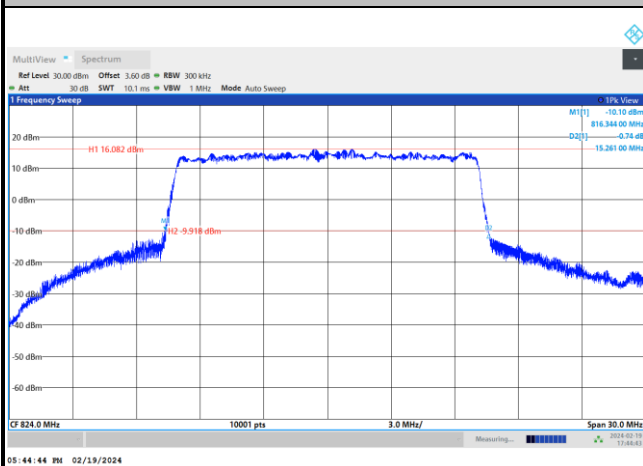
**26dB Bandwidth**

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	5.11		9.81		14.51		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	5.61	5.28	10.30	10.22	15.31	15.34	20.50	20.65
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.27	5.29	10.17	10.26	15.26	15.27	20.56	20.51

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


FR1 n26 / 15MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n26 / 15MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM
