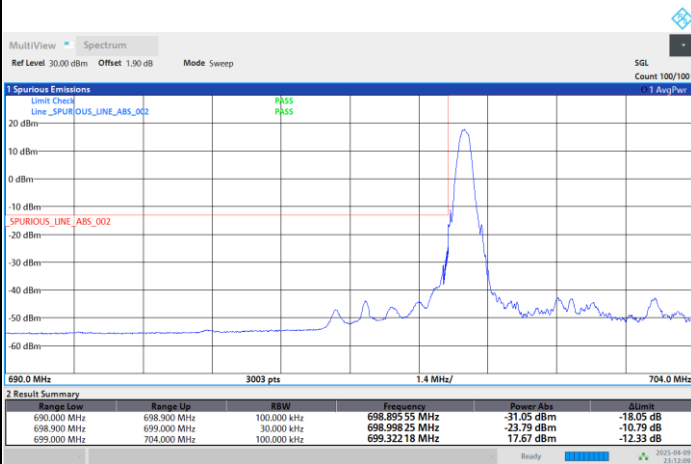




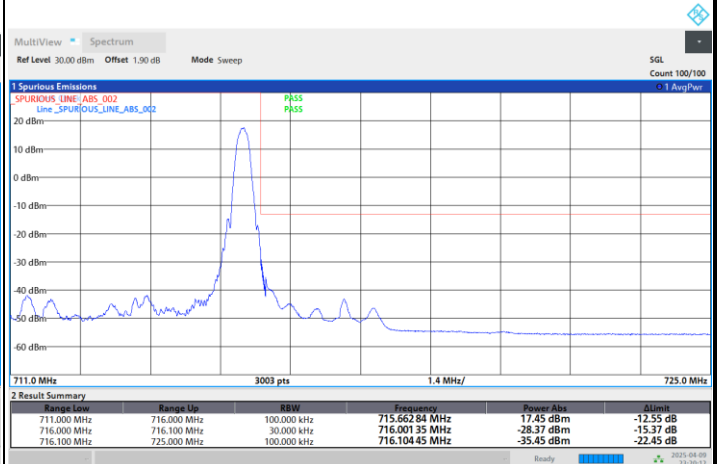
FR1 n12 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



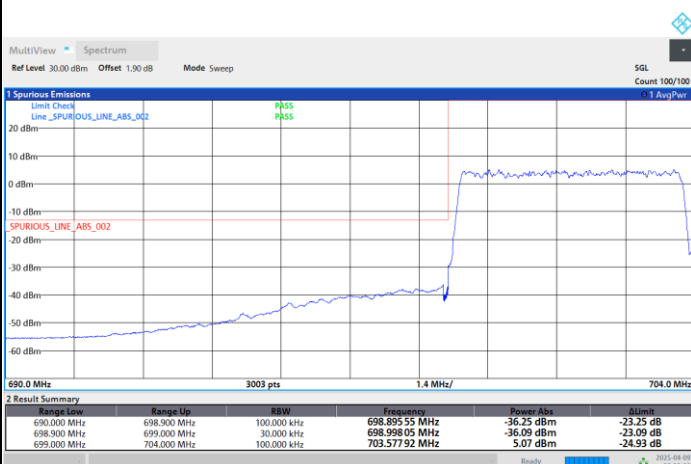
11:12:10 PM 04/09/2025



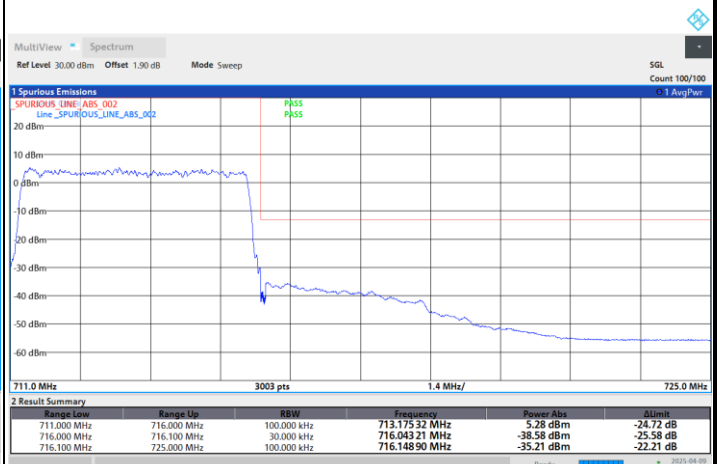
11:20:12 PM 04/09/2025

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



11:11:31 PM 04/09/2025



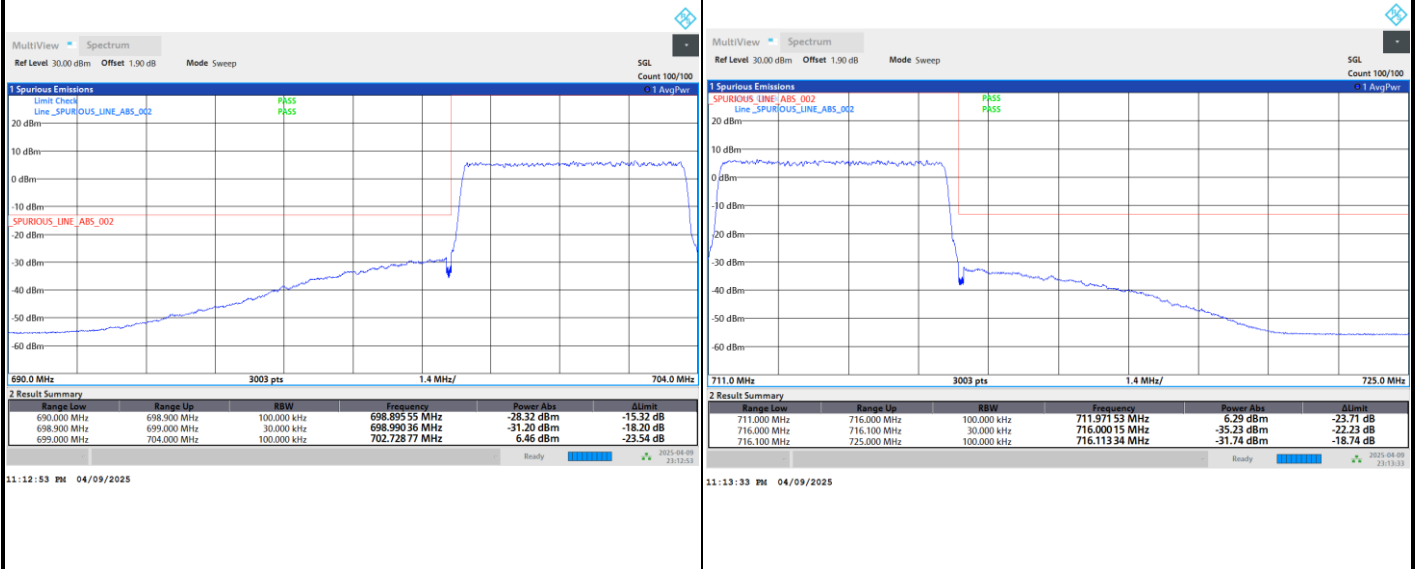
11:19:32 PM 04/09/2025



FR1 n12 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

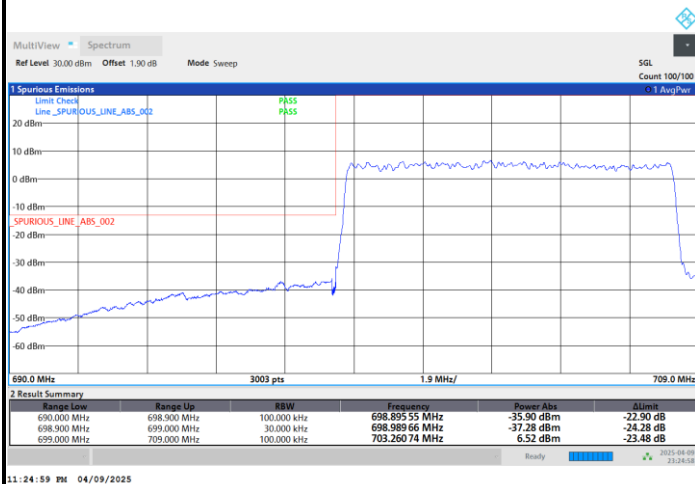
Highest Band Edge



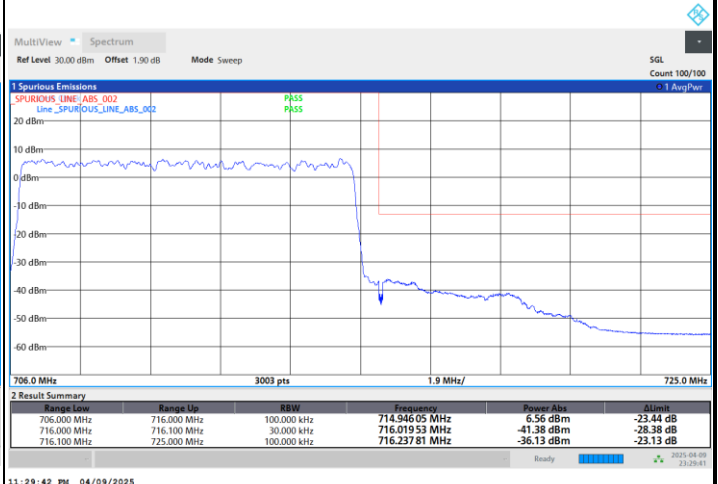


FR1 n12 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

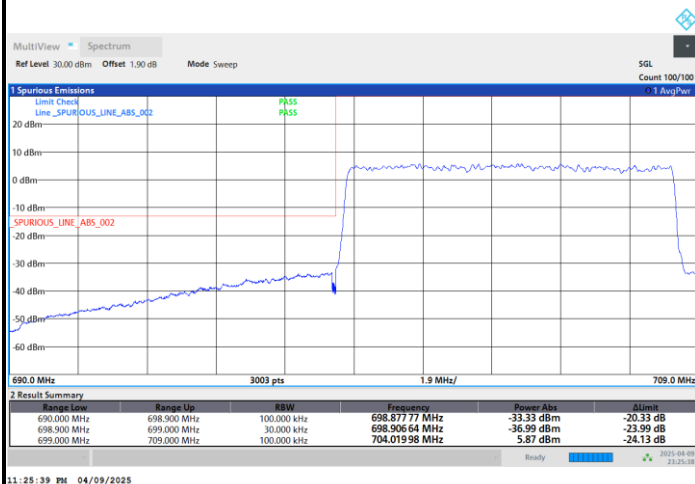


Highest Band Edge

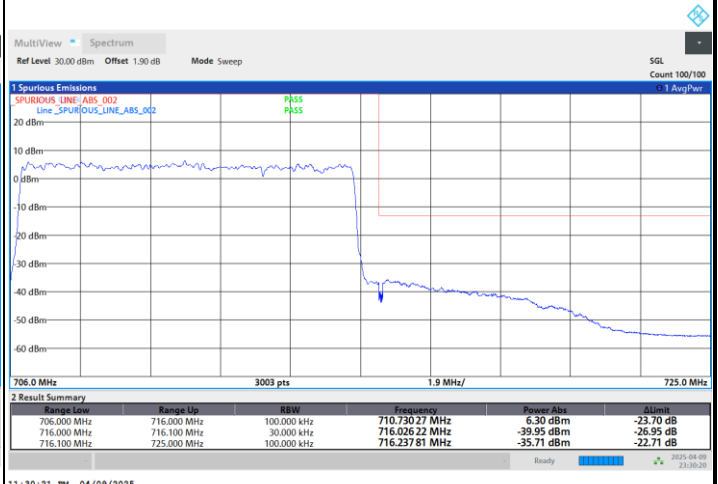


FR1 n12 / 10MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge



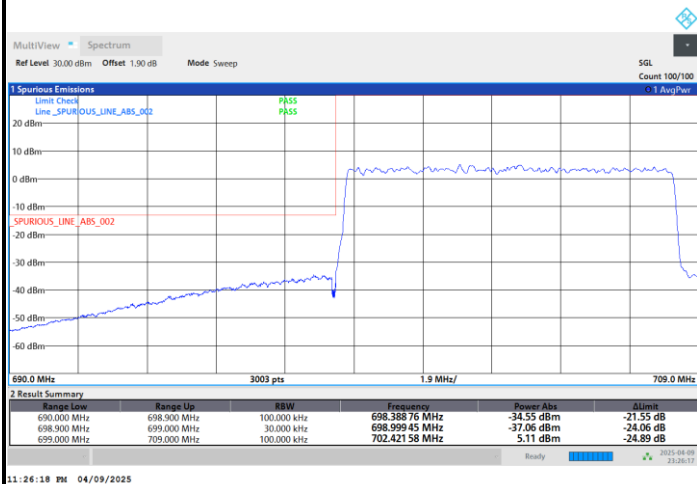
Highest Band Edge





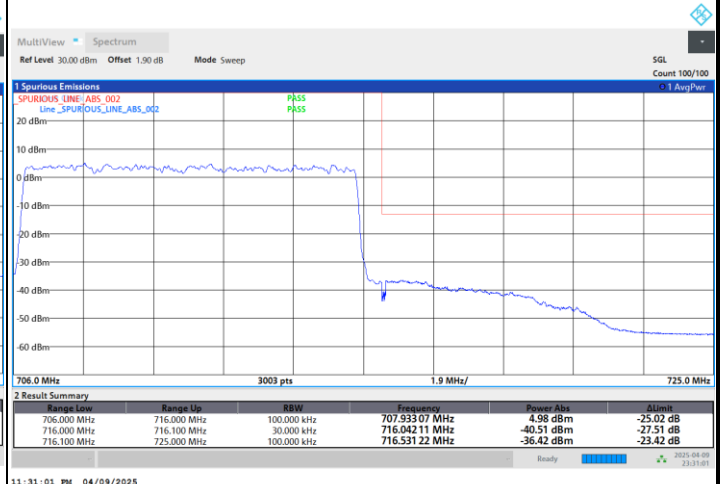
FR1 n12 / 10MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge



11:26:18 PM 04/09/2025

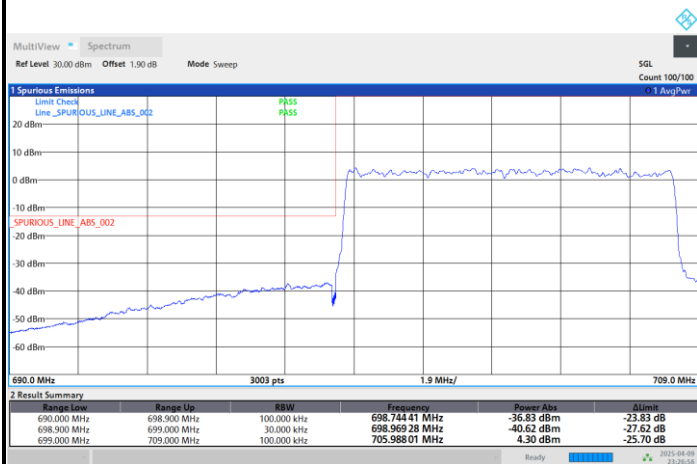
Highest Band Edge



11:31:01 PM 04/09/2025

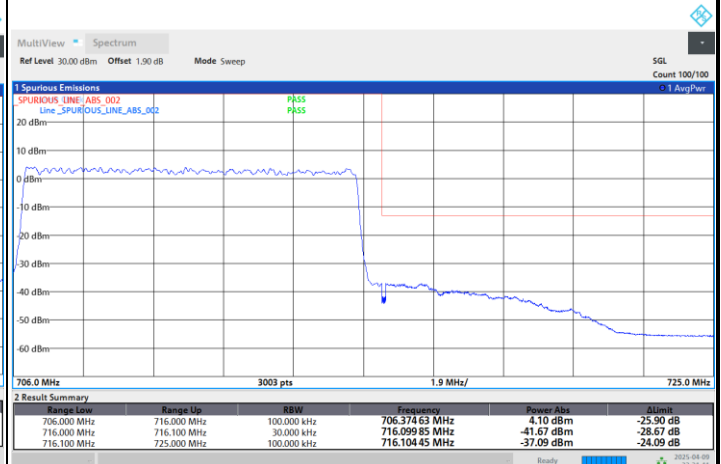
FR1 n12 / 10MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge



11:26:57 PM 04/09/2025

Highest Band Edge

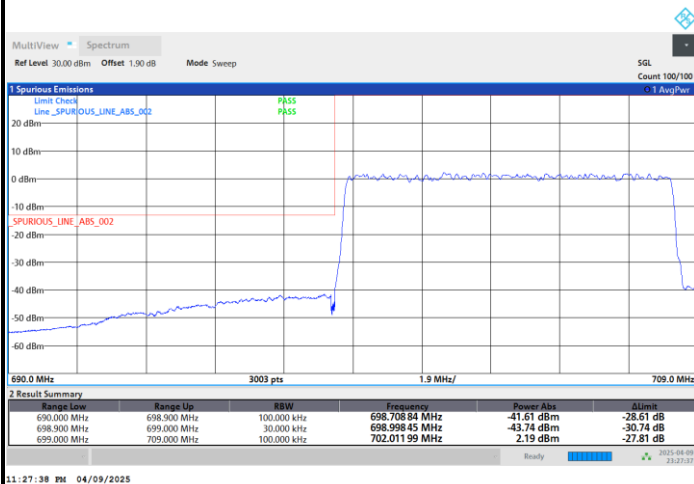


11:31:41 PM 04/09/2025



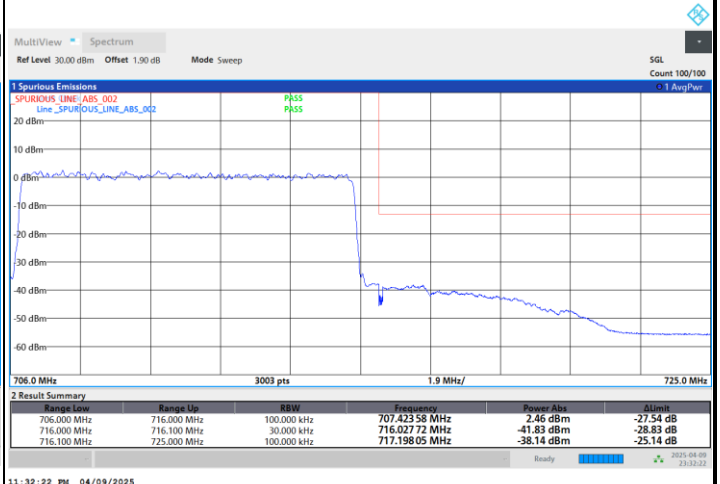
FR1 n12 / 10MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge



11:27:38 PM 04/09/2025

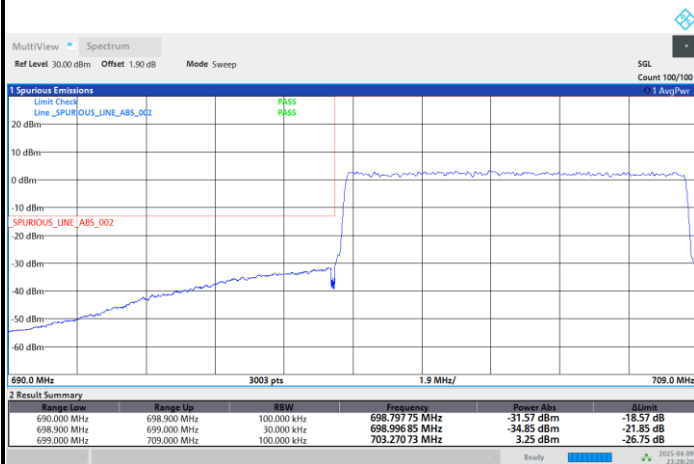
Highest Band Edge



11:32:22 PM 04/09/2025

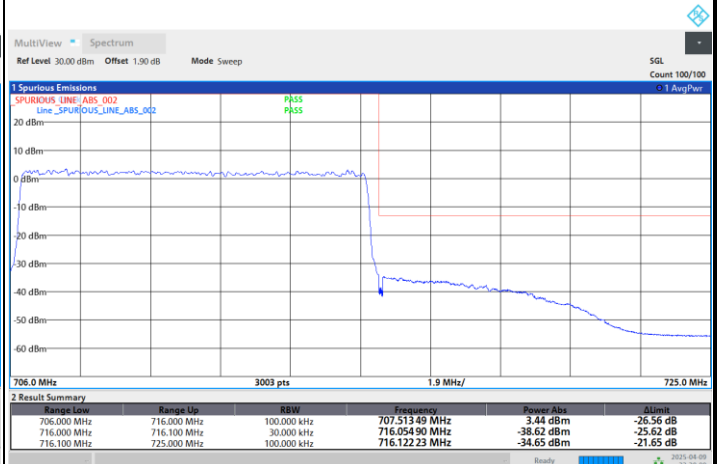
FR1 n12 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



11:28:21 PM 04/09/2025

Highest Band Edge

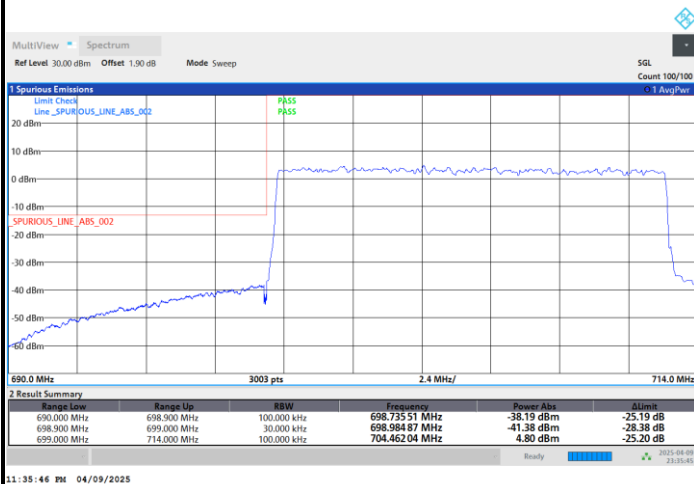


11:29:01 PM 04/09/2025



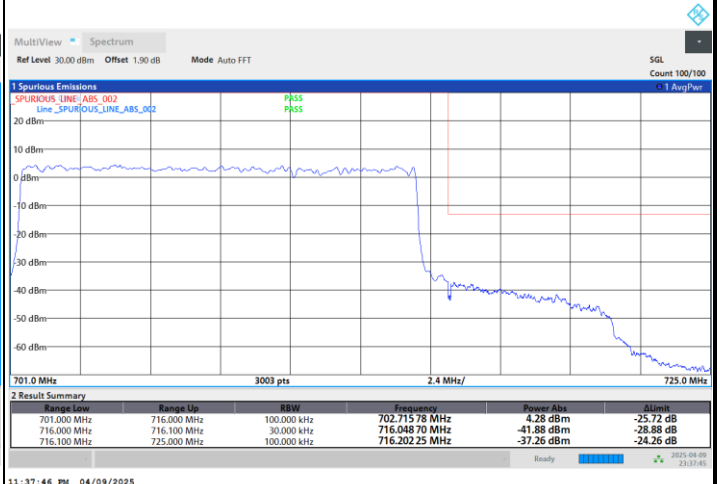
FR1 n12 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge



11:35:46 PM 04/09/2025

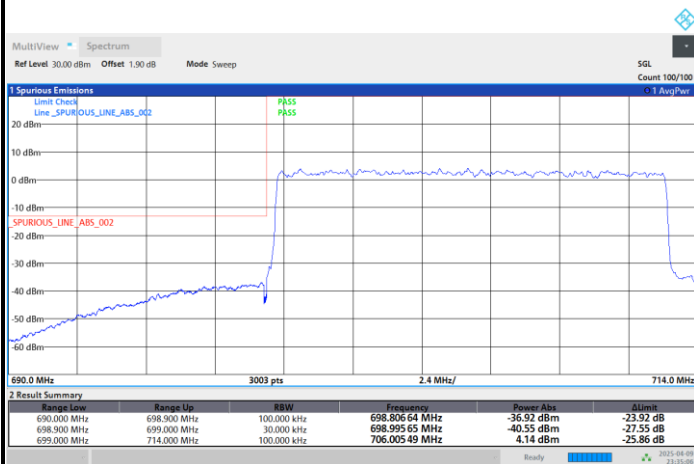
Highest Band Edge



11:37:46 PM 04/09/2025

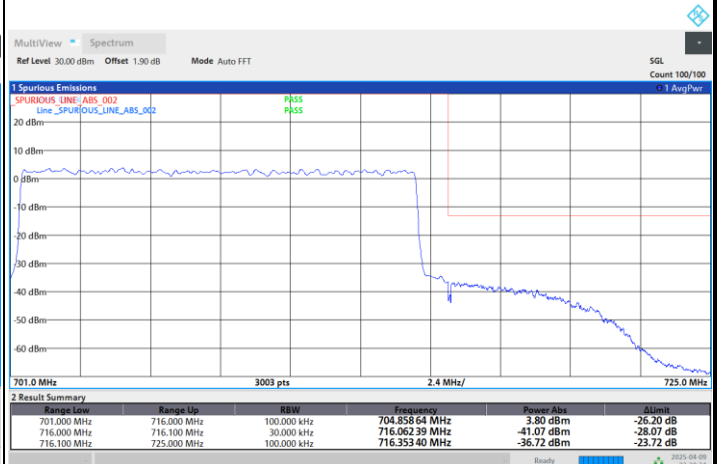
FR1 n12 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge



11:35:06 PM 04/09/2025

Highest Band Edge

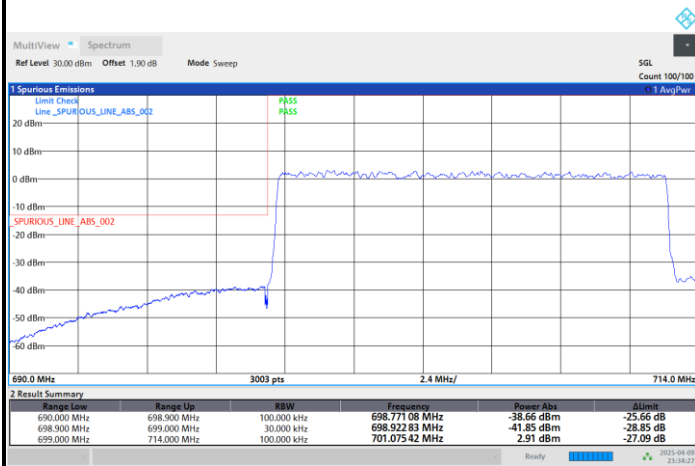


11:36:24 PM 04/09/2025



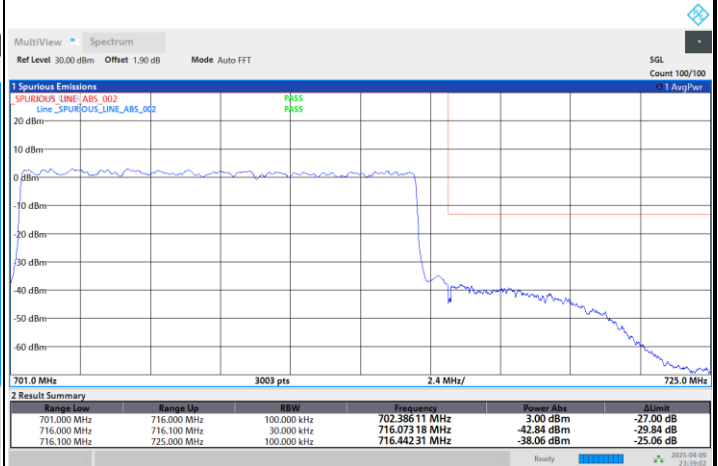
FR1 n12 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge



11:34:27 PM 04/09/2025

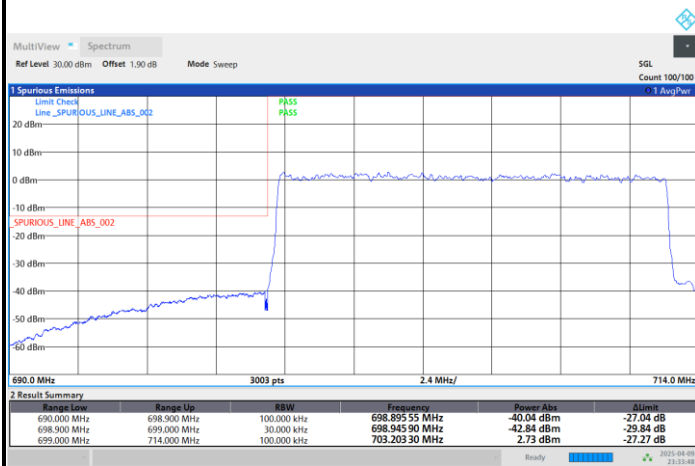
Highest Band Edge



11:39:03 PM 04/09/2025

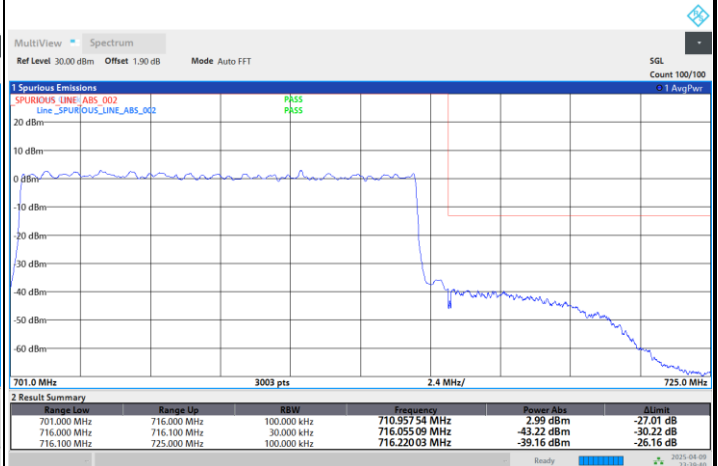
FR1 n12 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge



11:33:48 PM 04/09/2025

Highest Band Edge

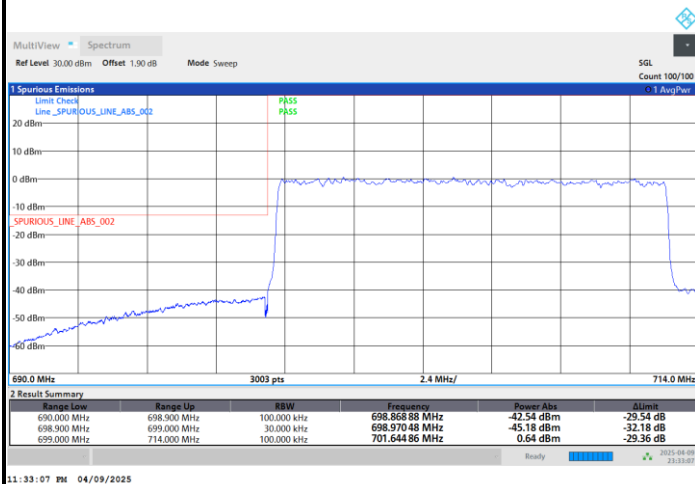


11:39:41 PM 04/09/2025

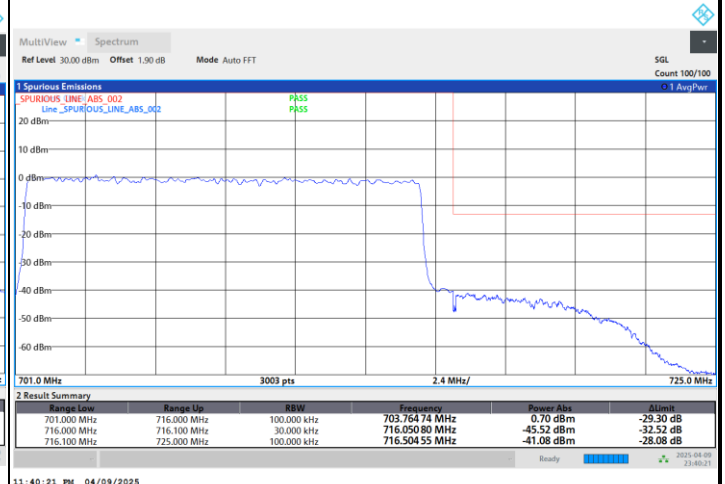


FR1 n12 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

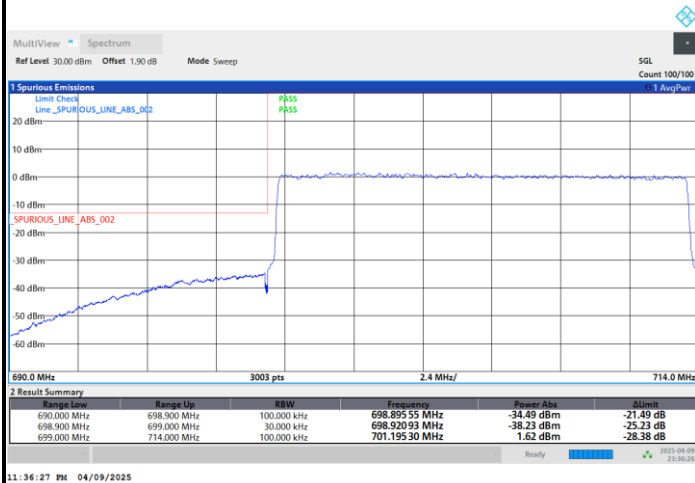


Highest Band Edge

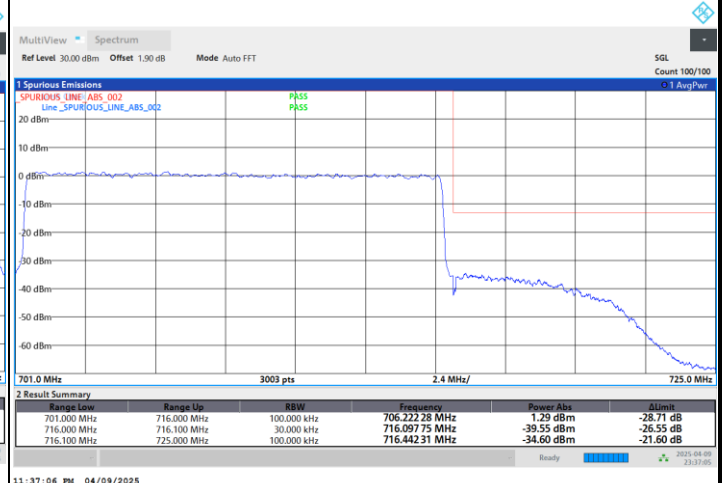


FR1 n12 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

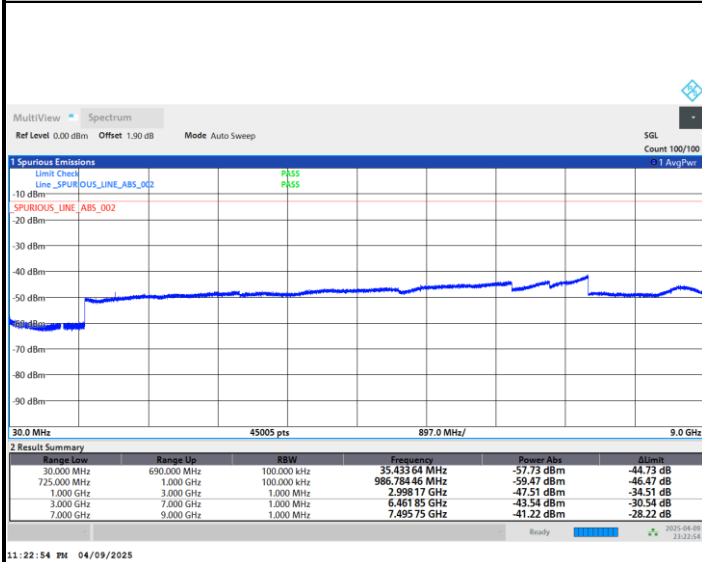




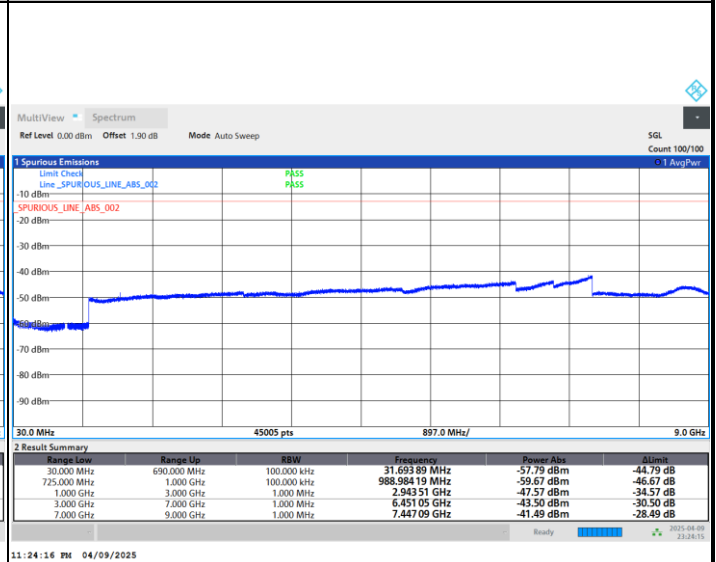
Conducted Spurious Emission

FR1 n12 / 5MHz / DFT-S OFDM / QPSK / 1RB1

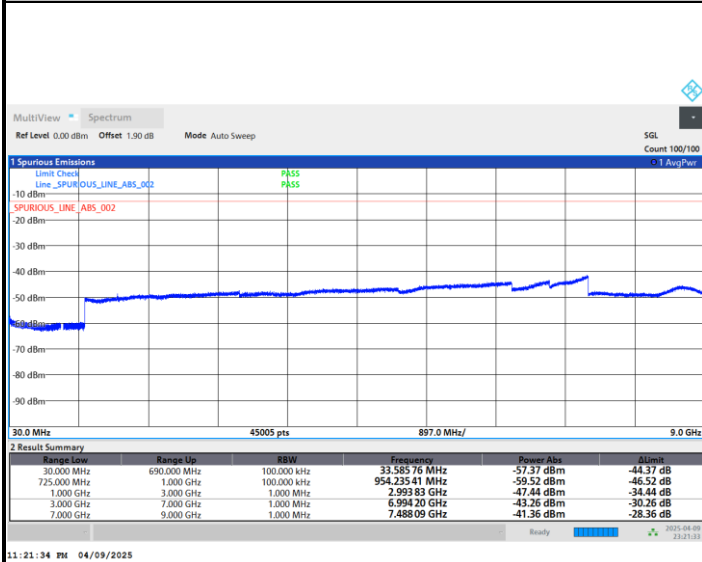
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n12 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0045	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0010	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

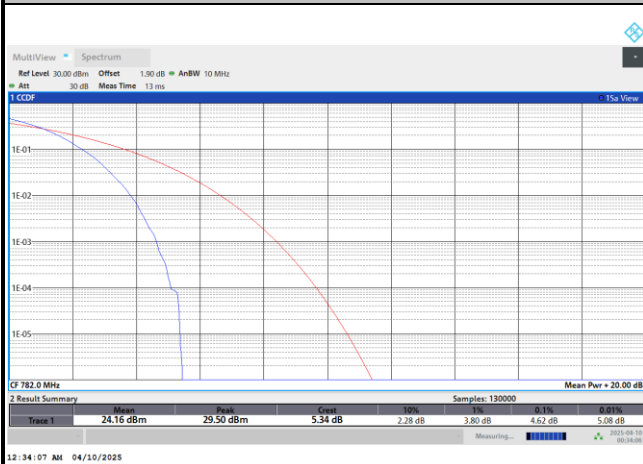
**FR1 n13****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n13 / 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	4.62	5.60	6.28	6.44	PASS
Mode	FR1 n13 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.62				PASS

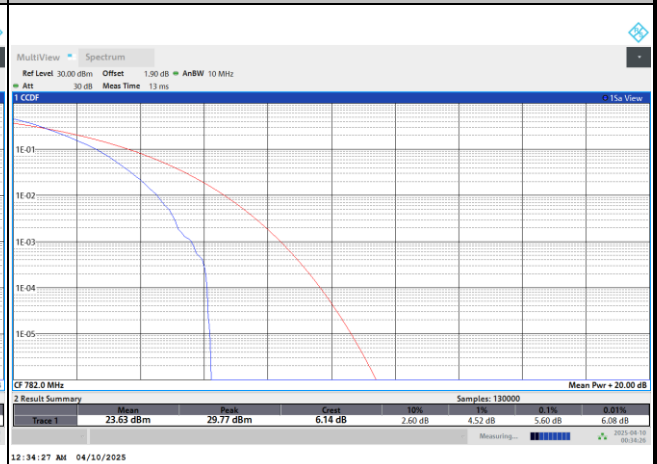


FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

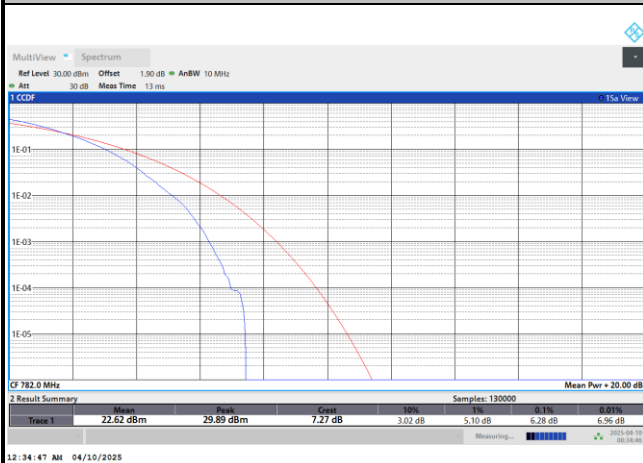
PI/2 BPSK



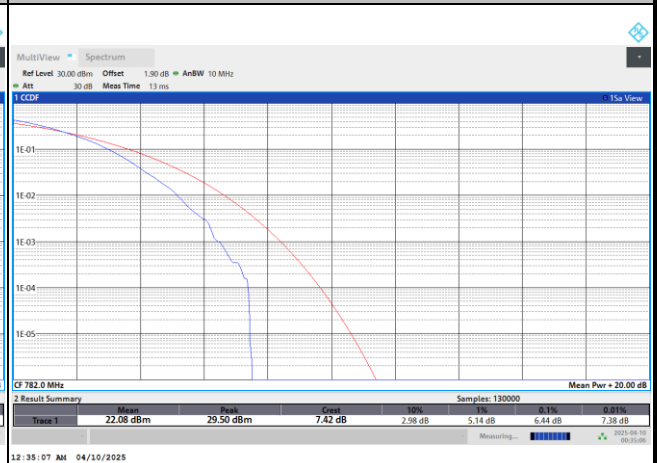
QPSK



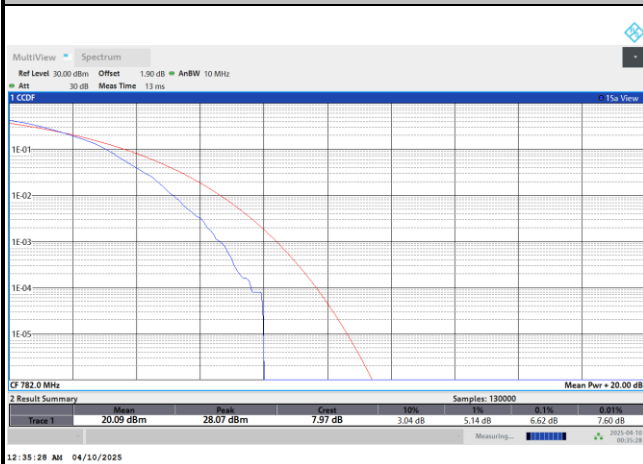
16QAM



64QAM



256QAM



**26dB Bandwidth**

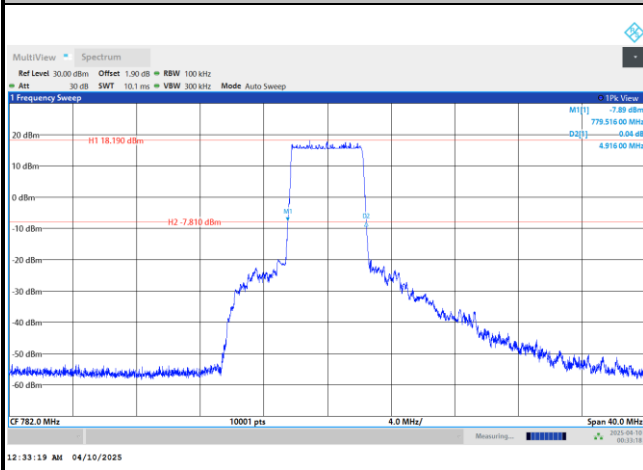
Mode	FR1 n13 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.91		9.55					

Mode	FR1 n13 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.94	4.90	9.91	9.90				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.94	4.92	9.90	9.90				



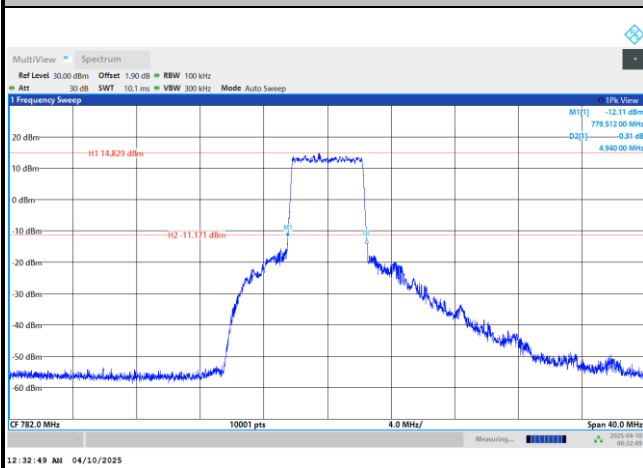
FR1 n13 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

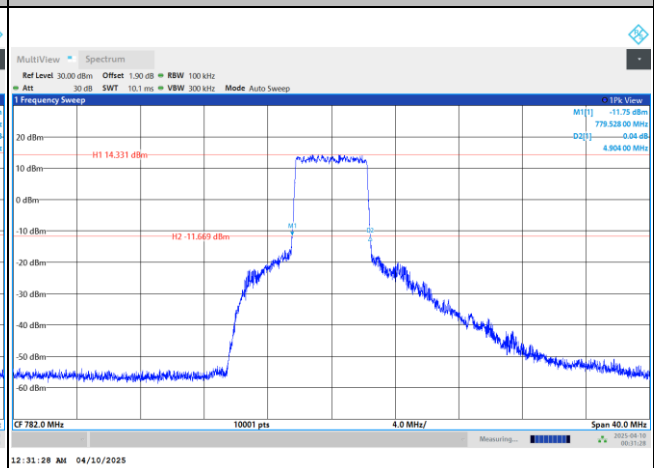


FR1 n13 / 5MHz / CP OFDM / Middle Channel / Full RB

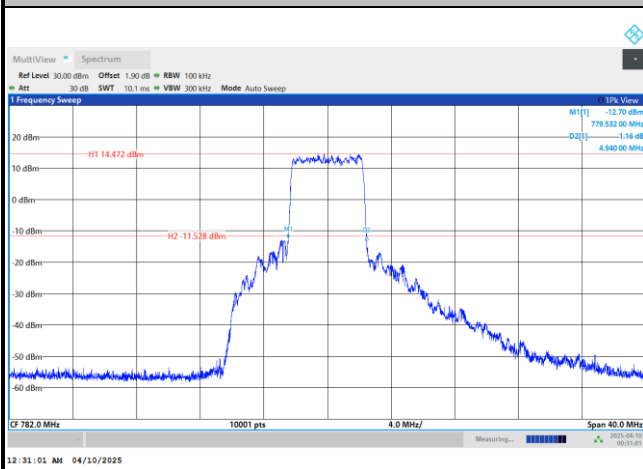
QPSK



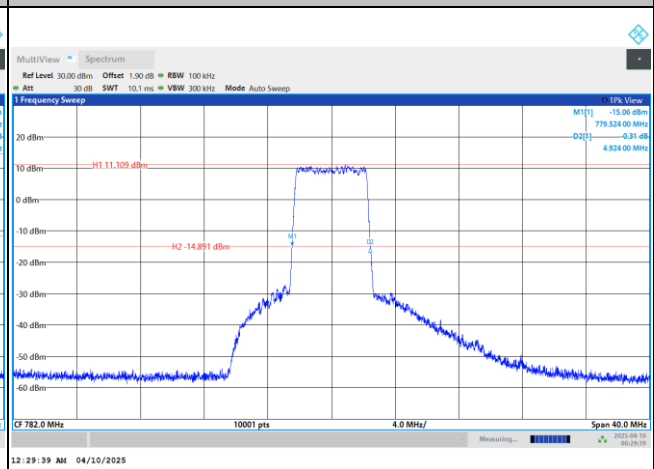
16QAM



64QAM



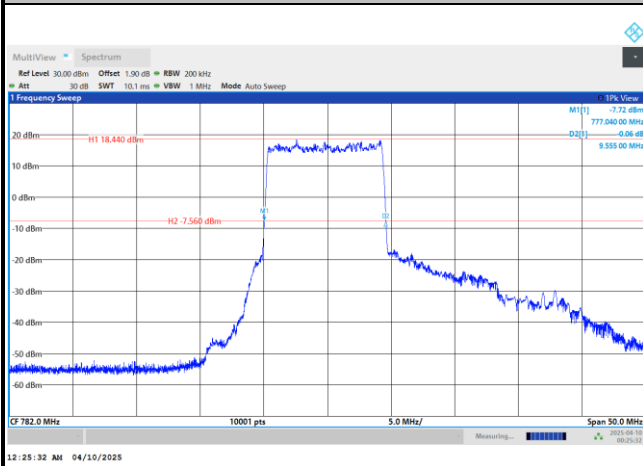
256QAM





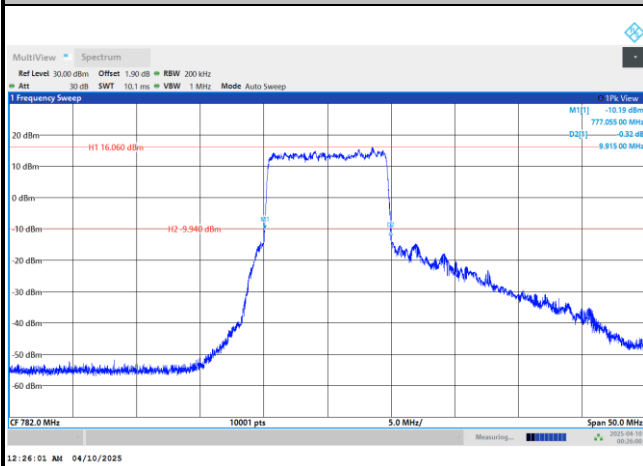
FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

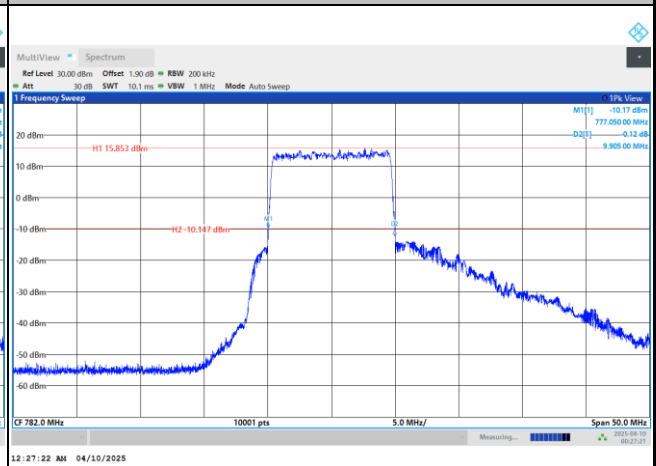


FR1 n13 / 10MHz / CP OFDM / Middle Channel / Full RB

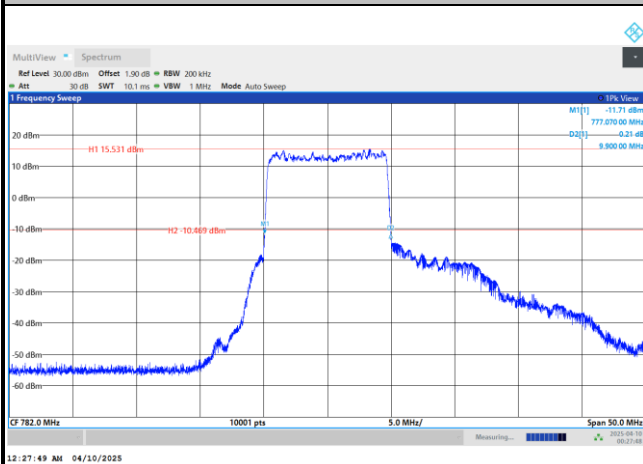
QPSK



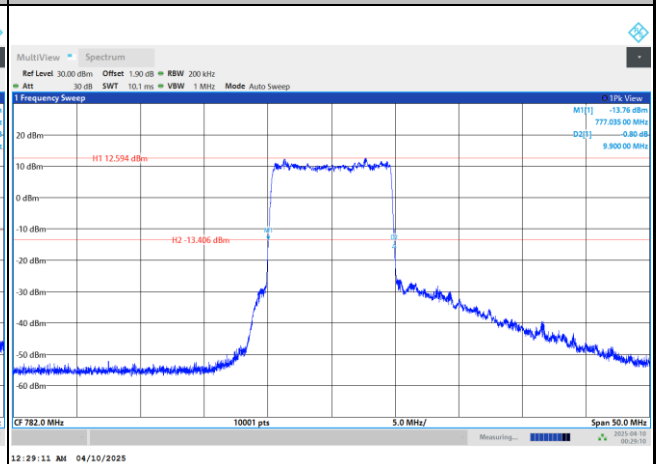
16QAM



64QAM



256QAM



**Occupied Bandwidth**

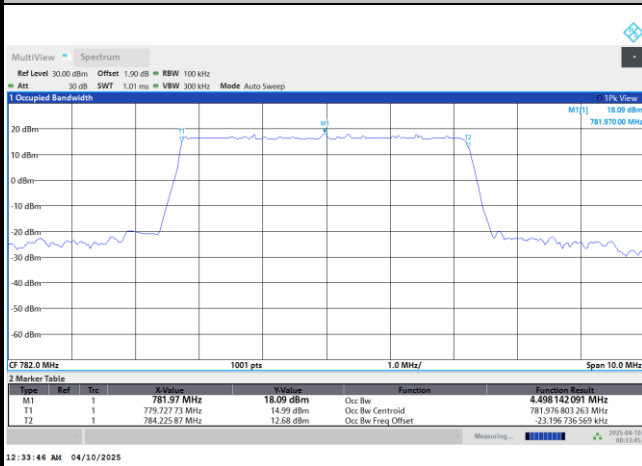
Mode	FR1 n13 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.49		9.00					

Mode	FR1 n13 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.49	4.50	9.31	9.32				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.50	4.49	9.32	9.31				



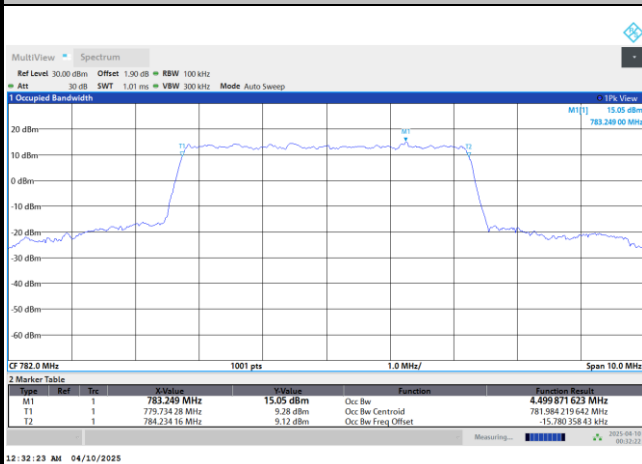
FR1 n13 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

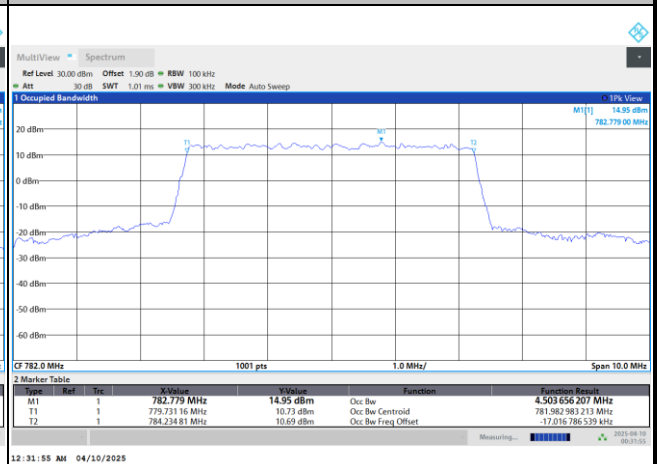


FR1 n13 / 5MHz / CP OFDM / Middle Channel / Full RB

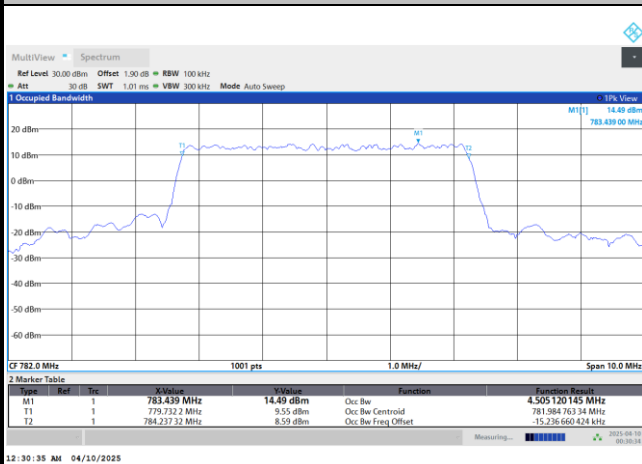
QPSK



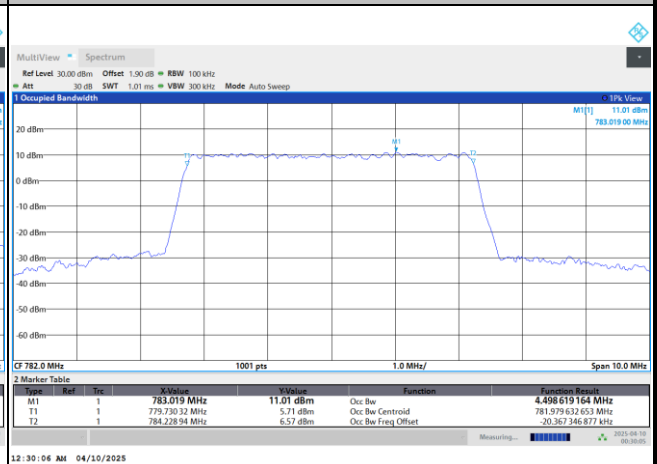
16QAM



64QAM

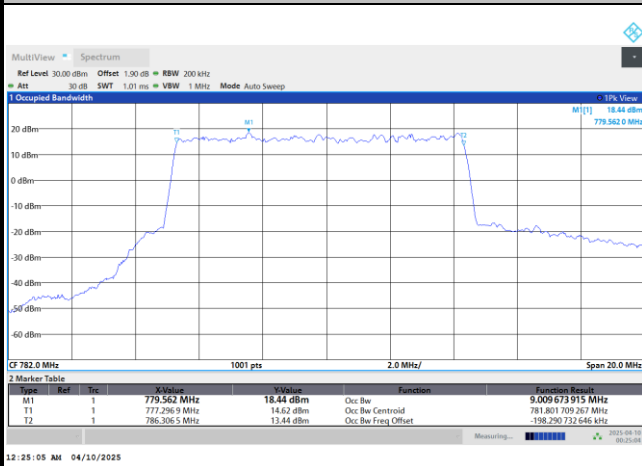


256QAM



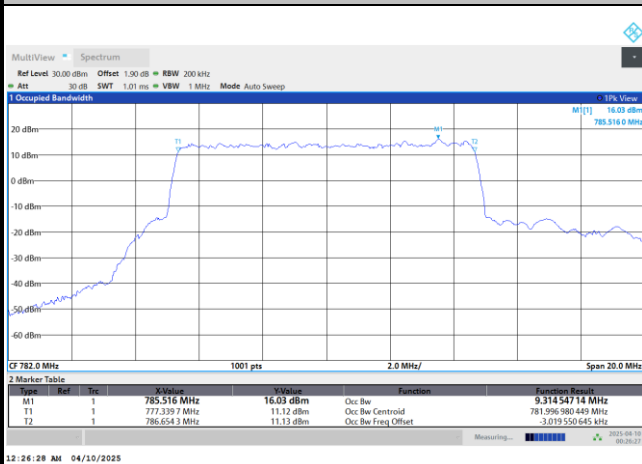
FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

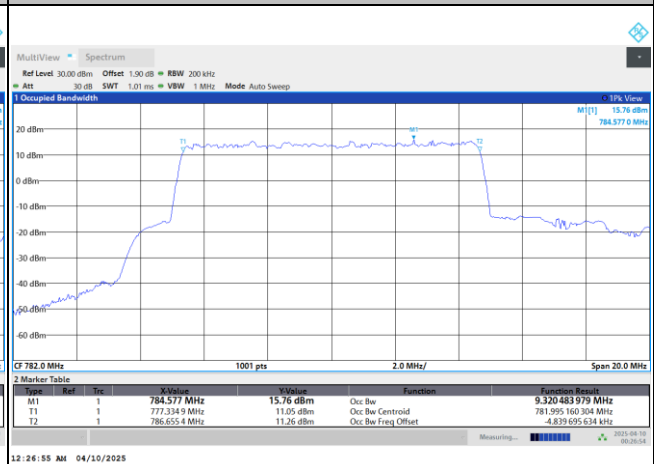


FR1 n13 / 10MHz / CP OFDM / Middle Channel / Full RB

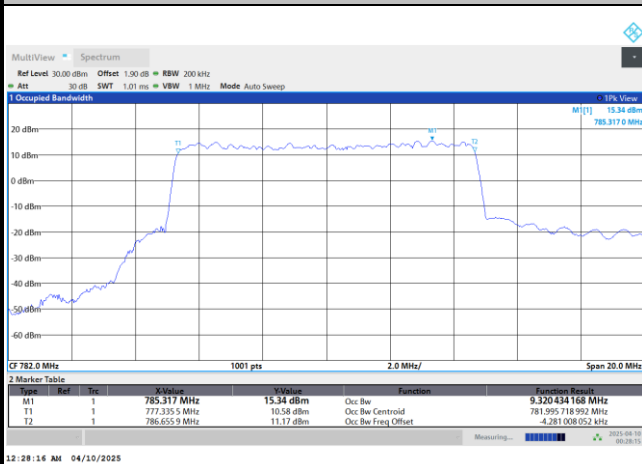
QPSK



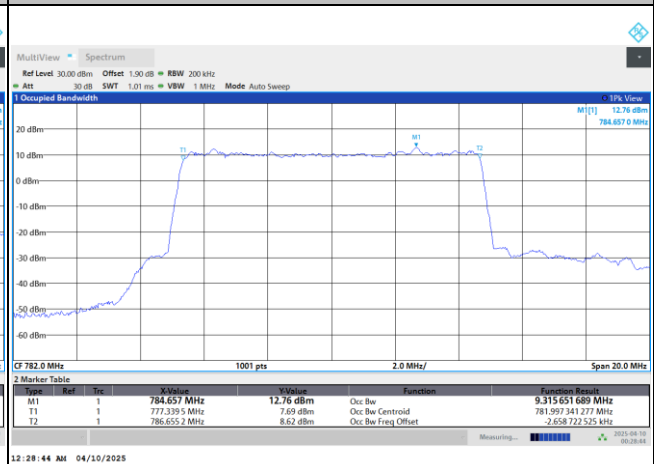
16QAM

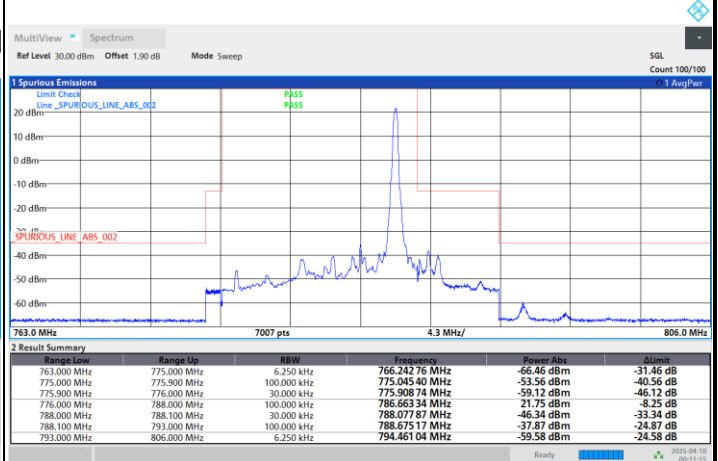
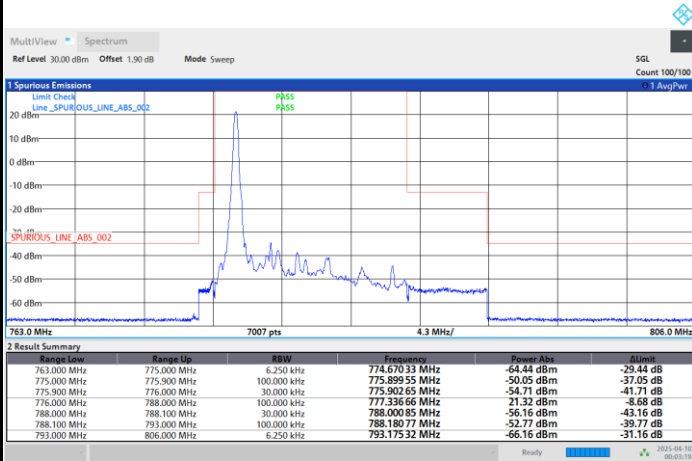
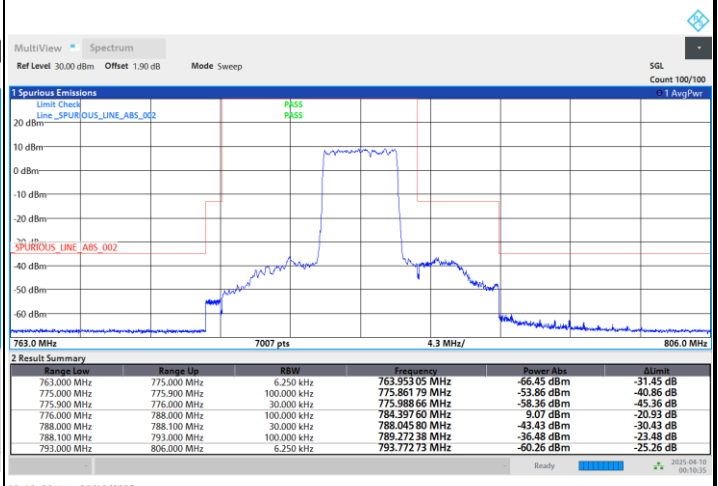
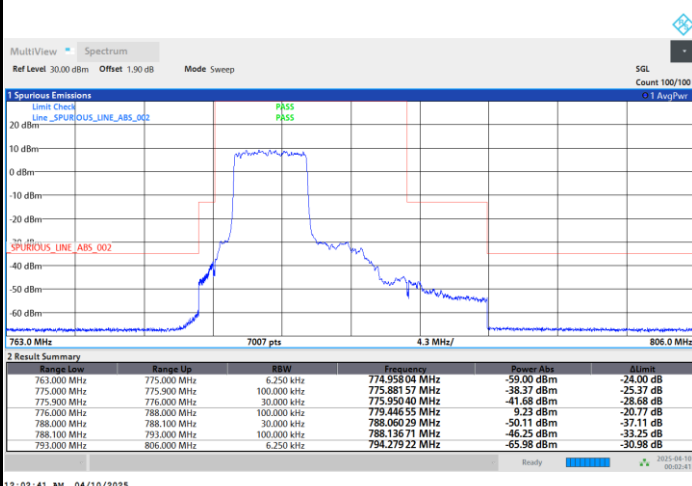


64QAM



256QAM



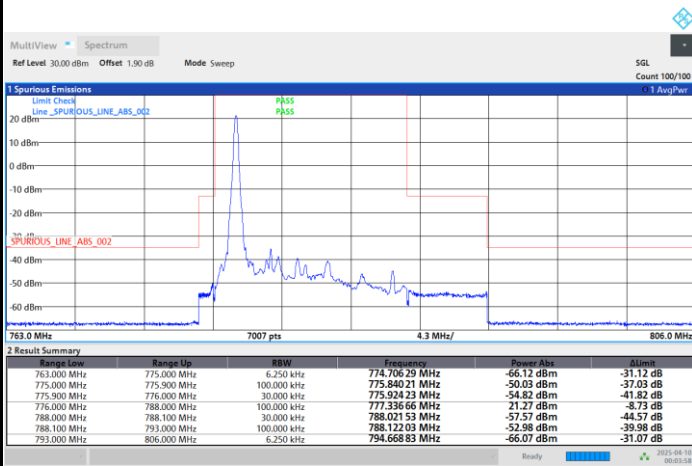
**Conducted Band Edge****FR1 n13 / 5MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



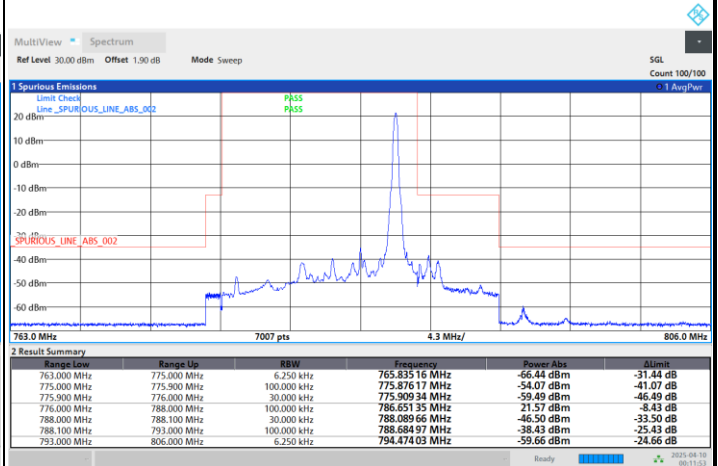
FR1 n13 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



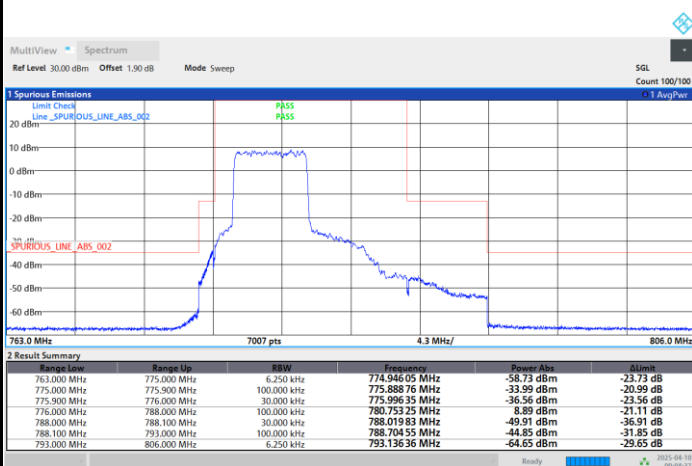
12:03:59 AM 04/10/2025



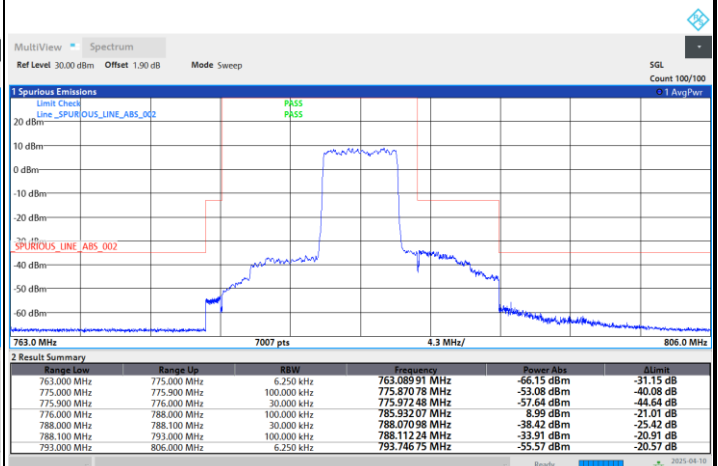
12:11:54 AM 04/10/2025

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



12:04:38 AM 04/10/2025



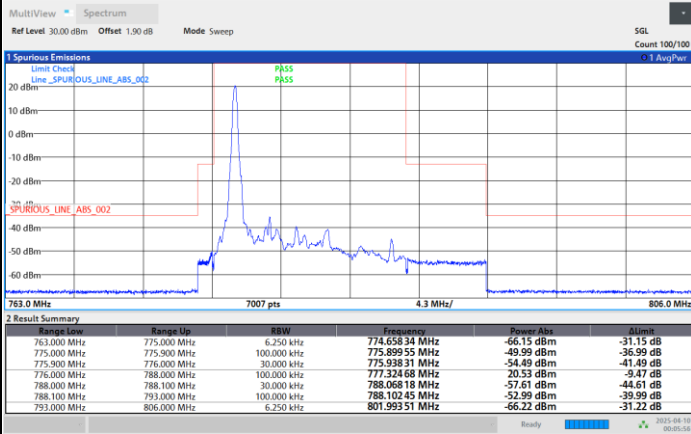
12:12:33 AM 04/10/2025



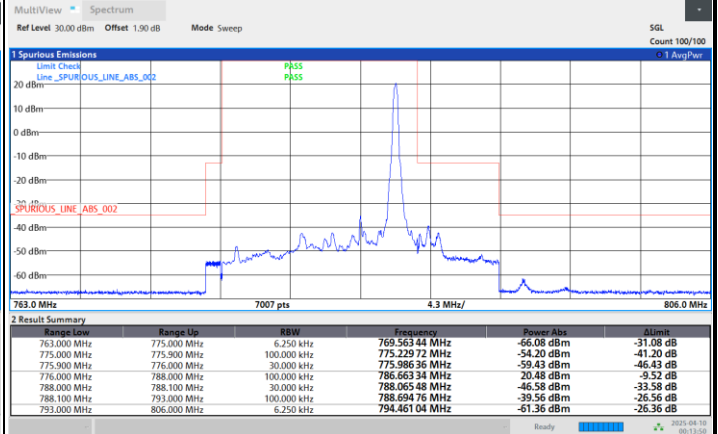
FR1 n13 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



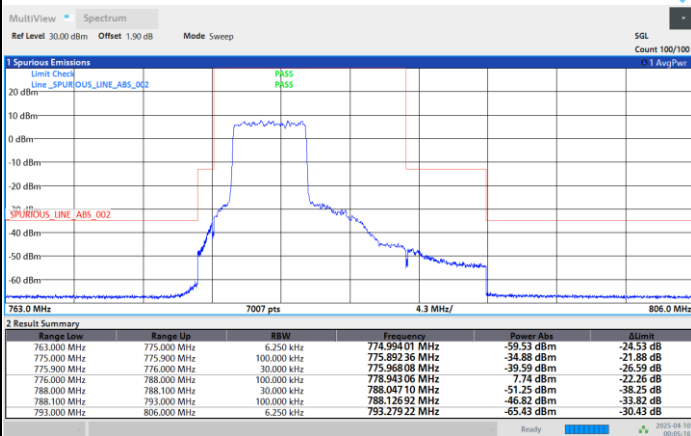
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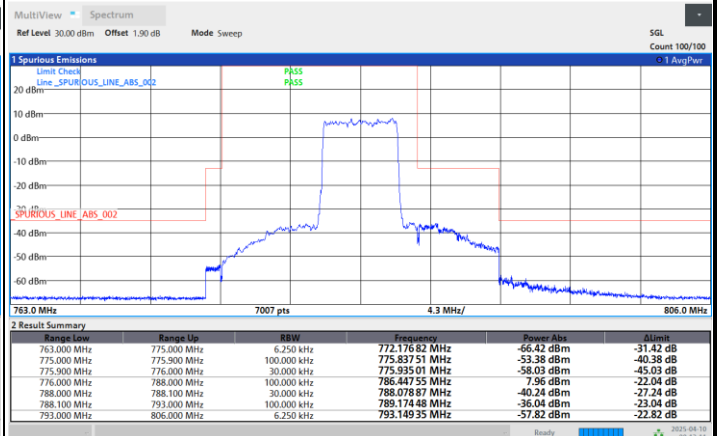
12:13:51 AM 04/10/2025

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



12:05:17 AM 04/10/2025



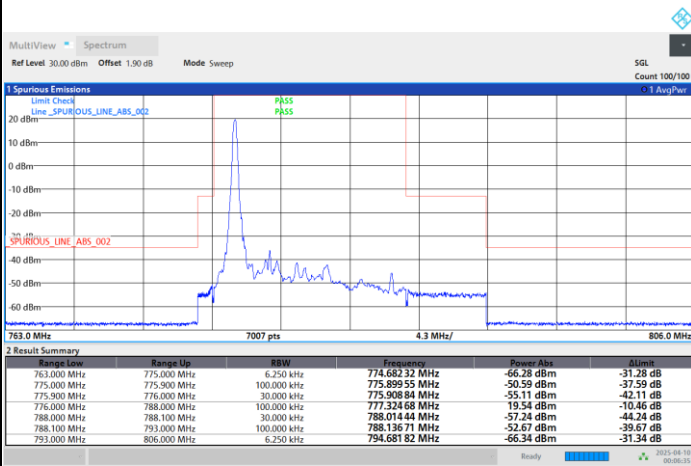
12:13:12 AM 04/10/2025



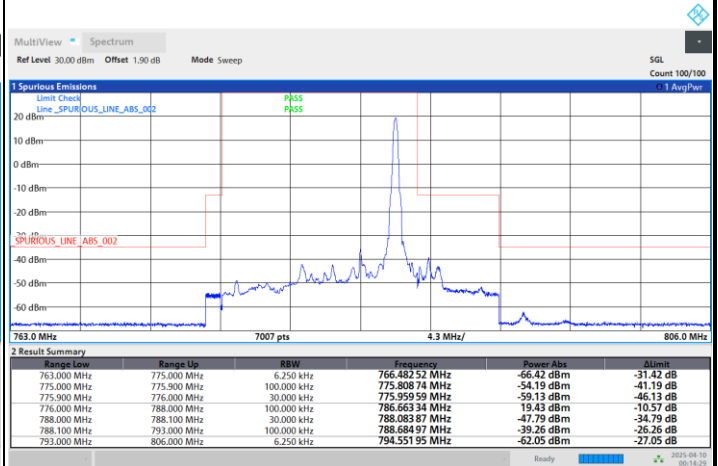
FR1 n13 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



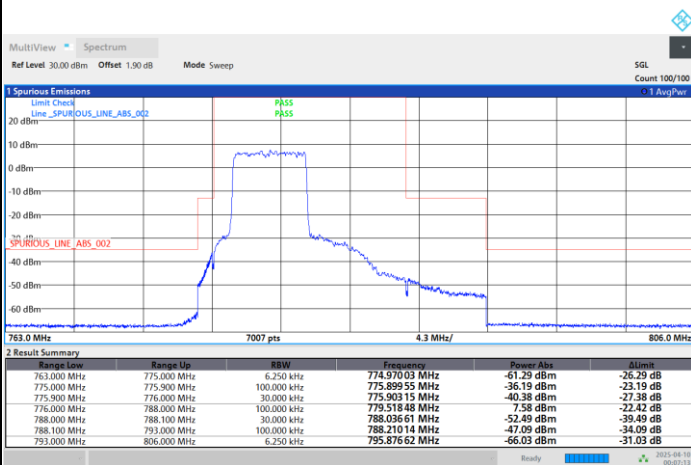
12:06:35 AM 04/10/2025



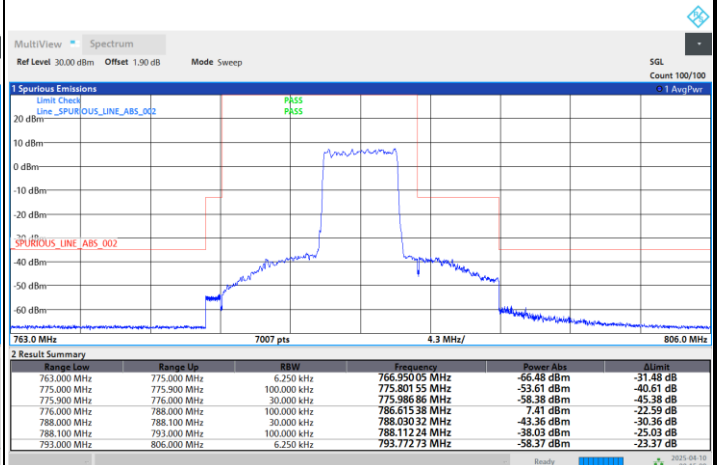
12:14:30 AM 04/10/2025

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



12:07:14 AM 04/10/2025



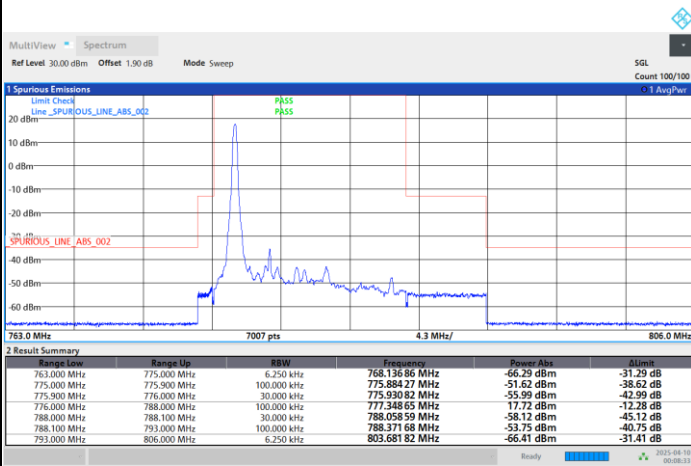
12:15:09 AM 04/10/2025



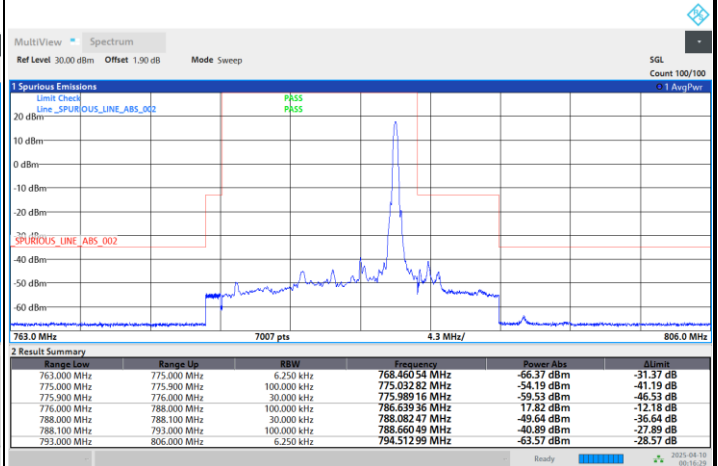
FR1 n13 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



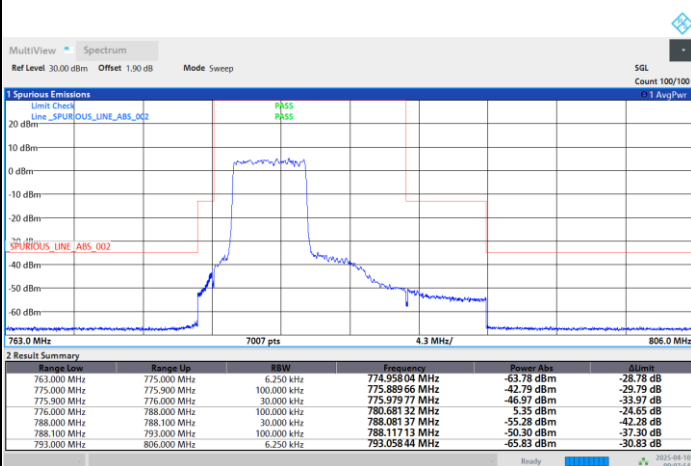
12:08:33 AM 04/10/2025



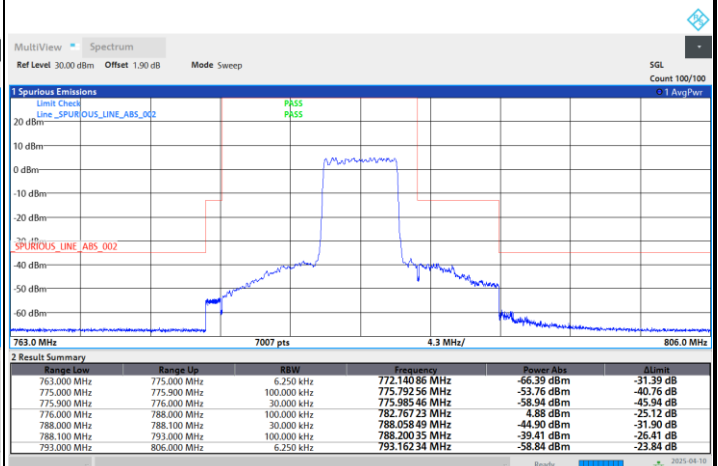
12:16:30 AM 04/10/2025

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



12:07:54 AM 04/10/2025



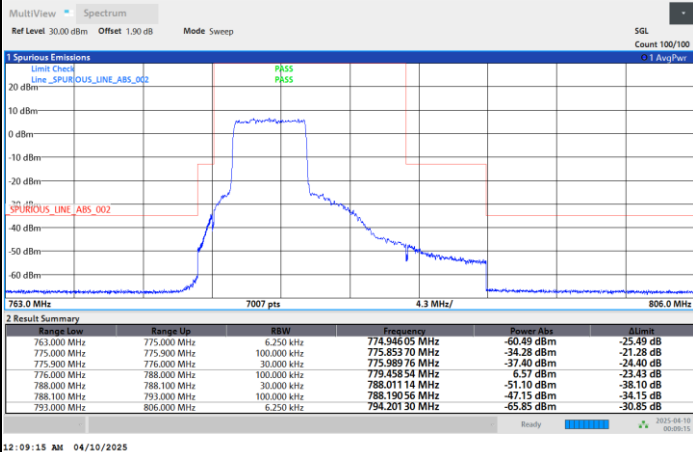
12:15:49 AM 04/10/2025



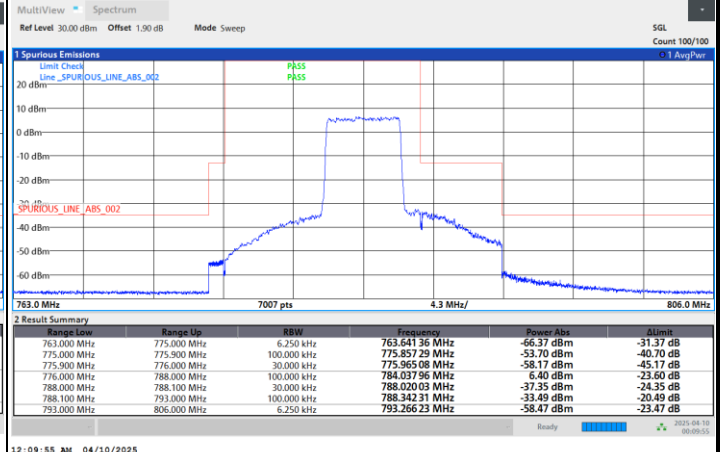
FR1 n13 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



12:09:15 AM 04/10/2025



12:09:55 AM 04/10/2025