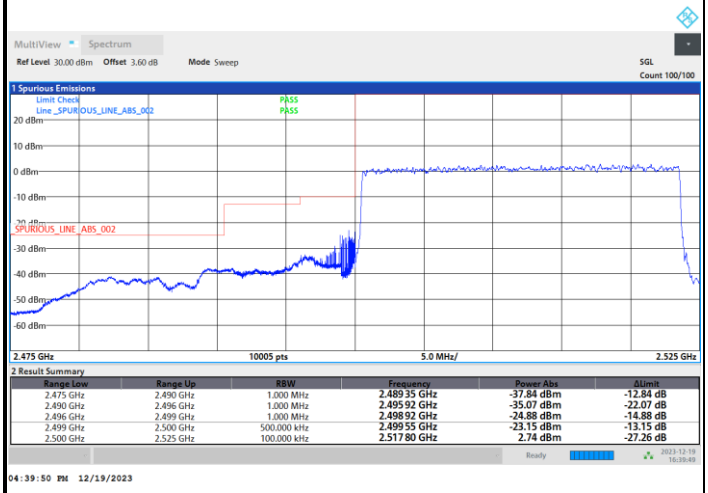
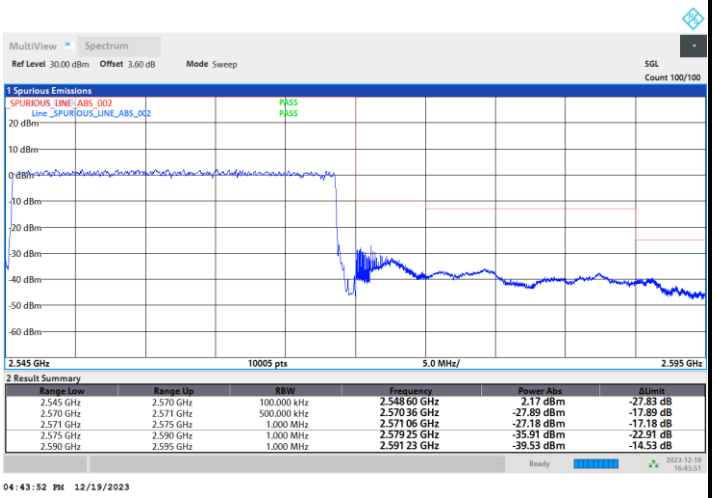
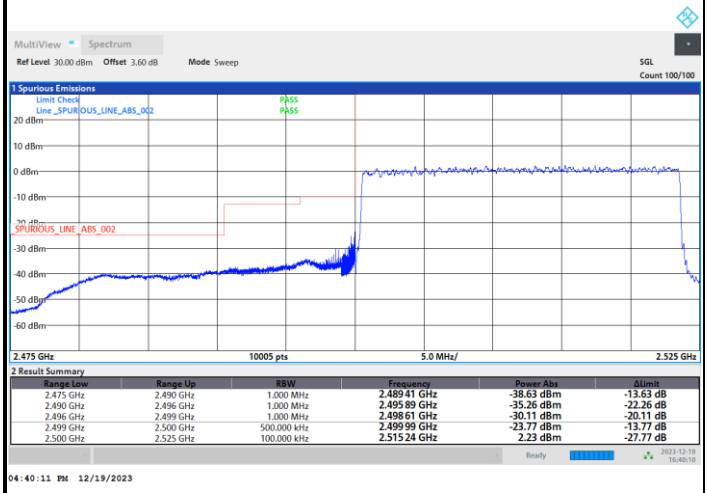
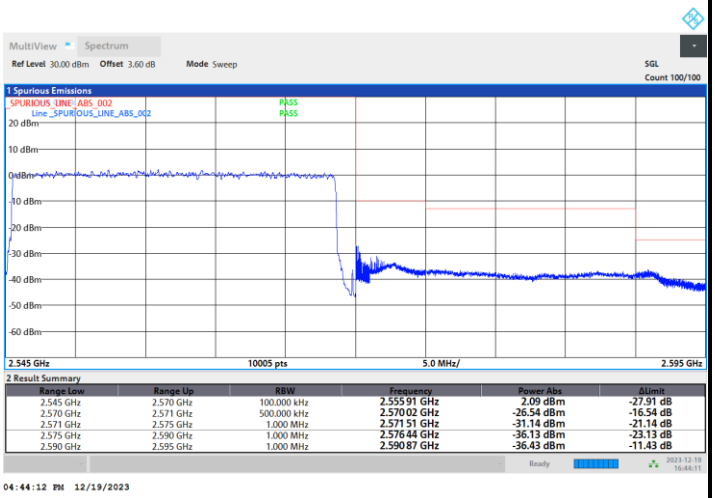
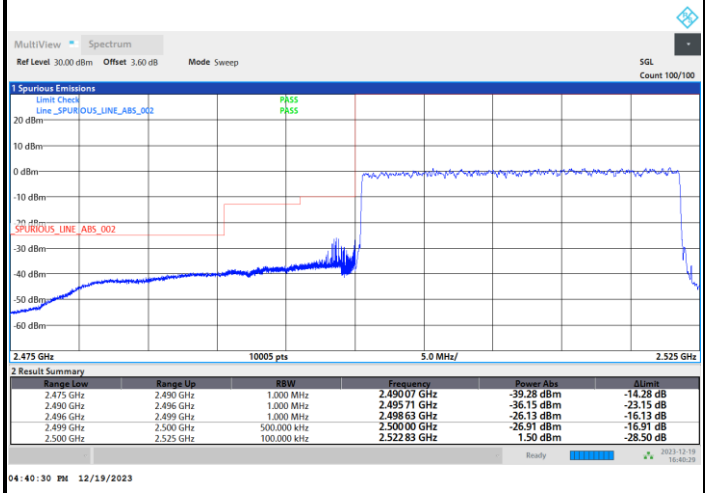
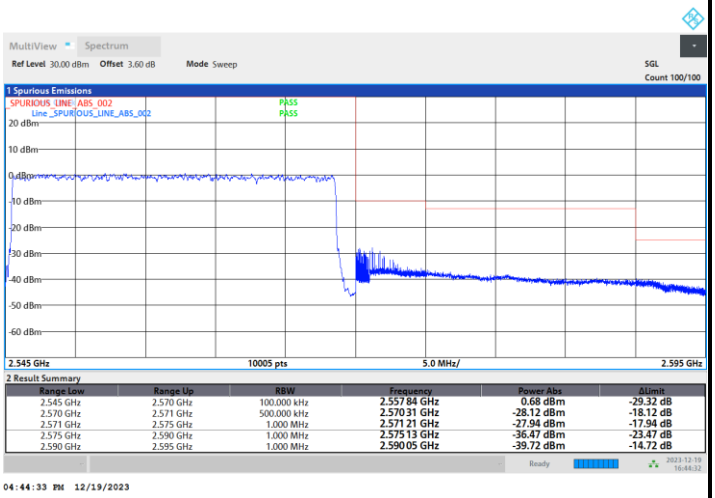
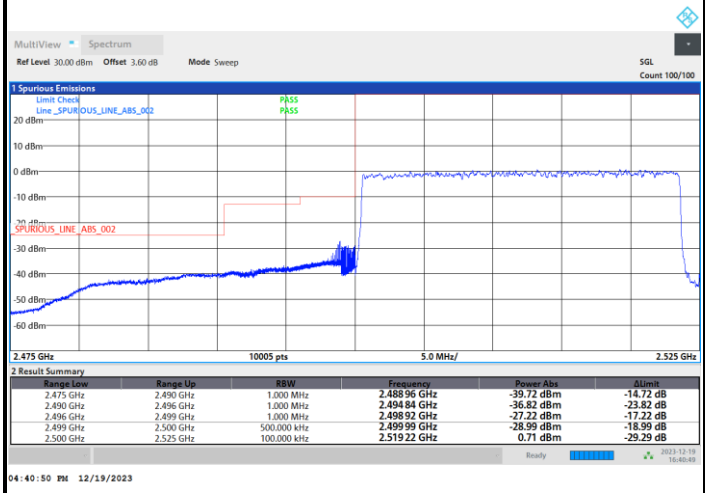
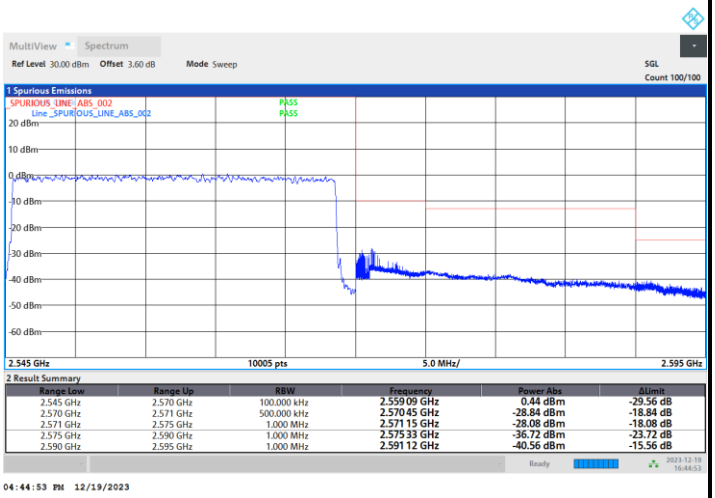
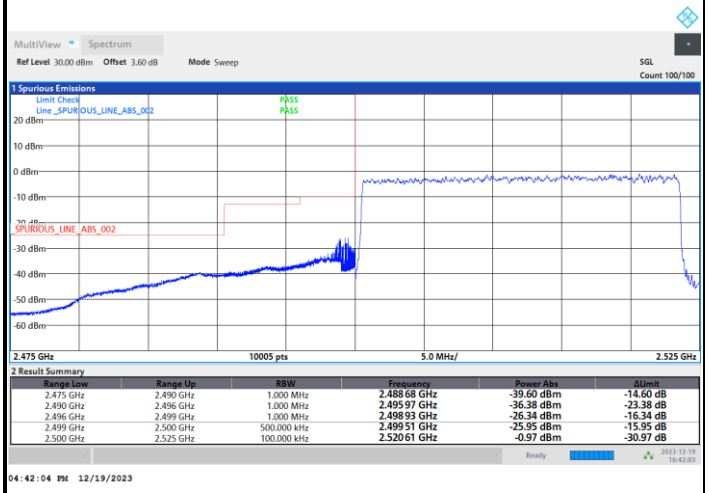
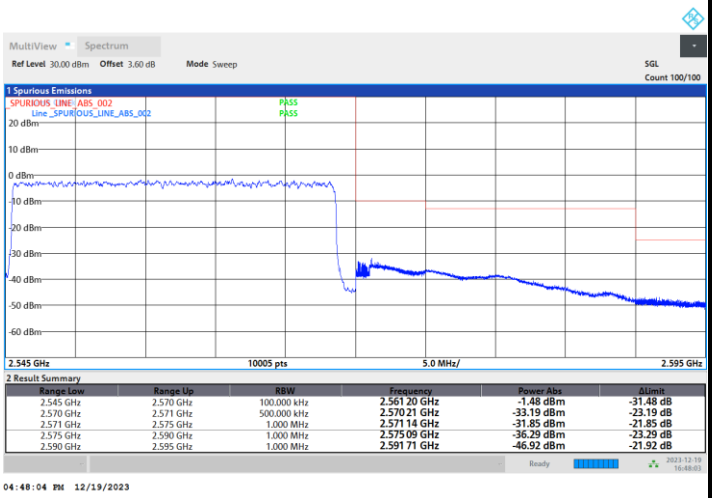
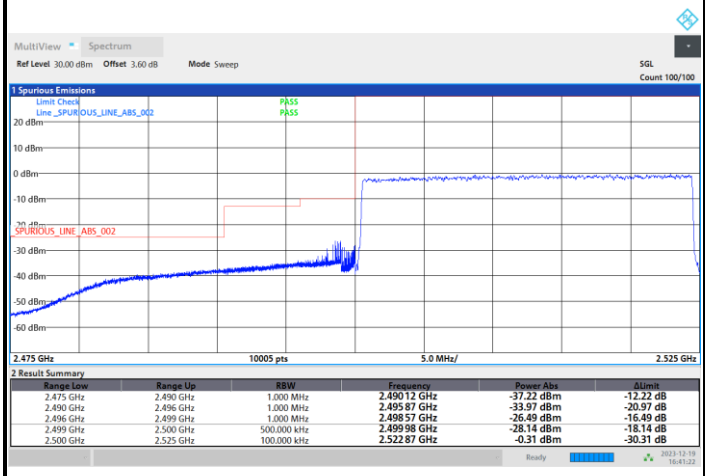
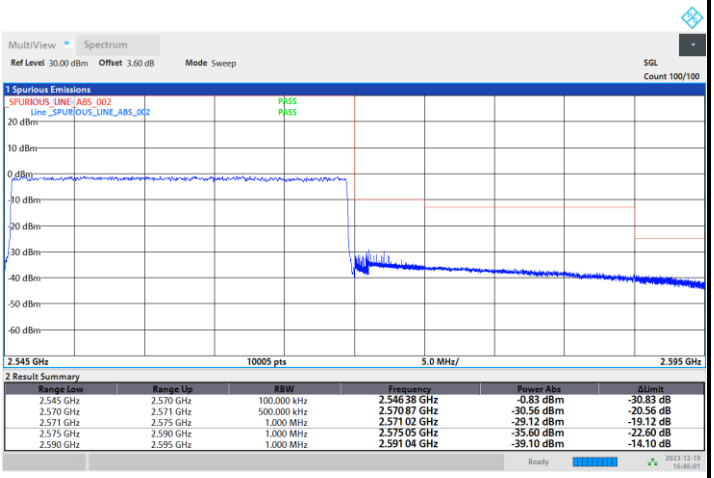
FR1 n7 / 25MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

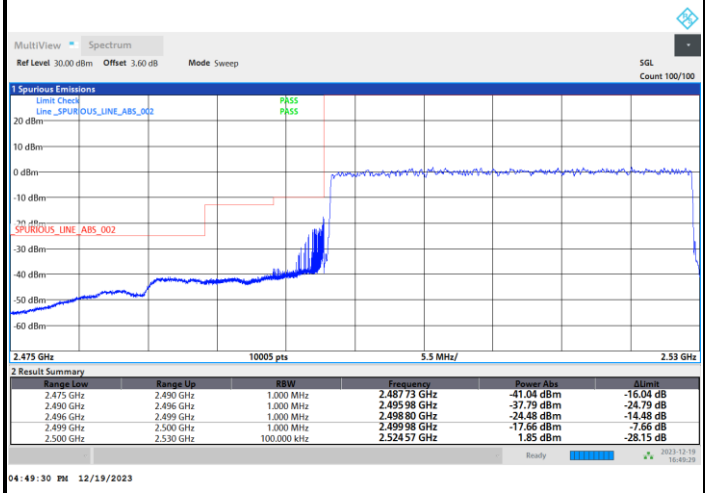
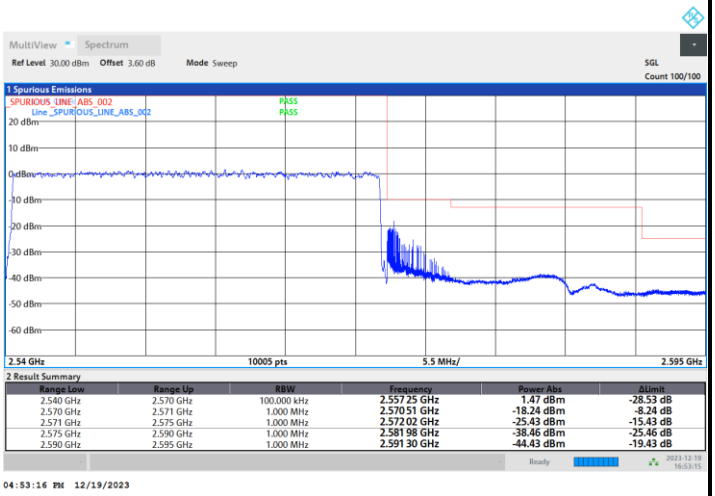
FR1 n7 / 25MHz / DFT-s-OFDM / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

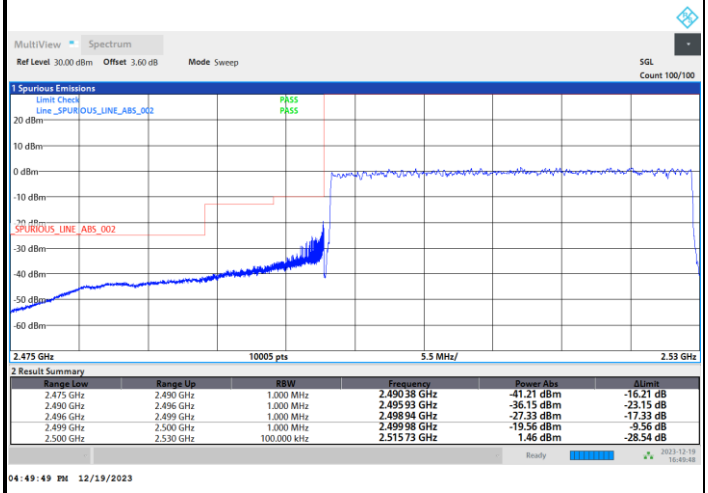
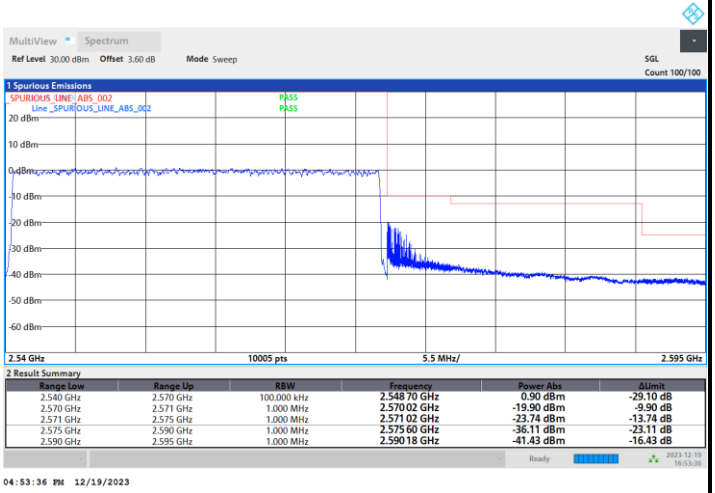
FR1 n7 / 25MHz / DFT-s-OFDM / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

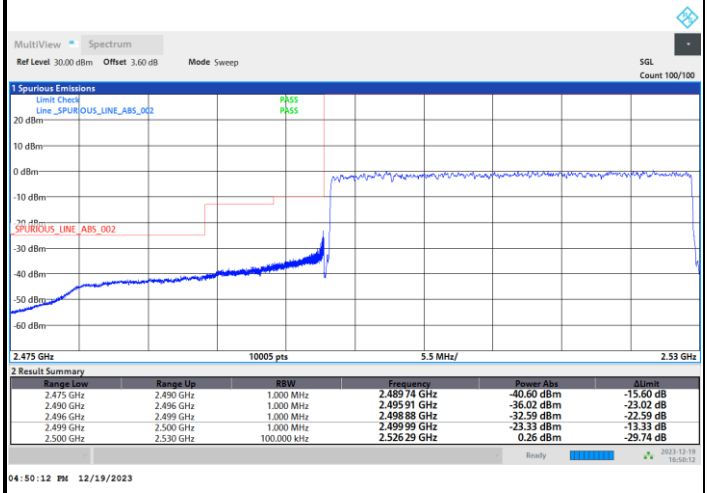
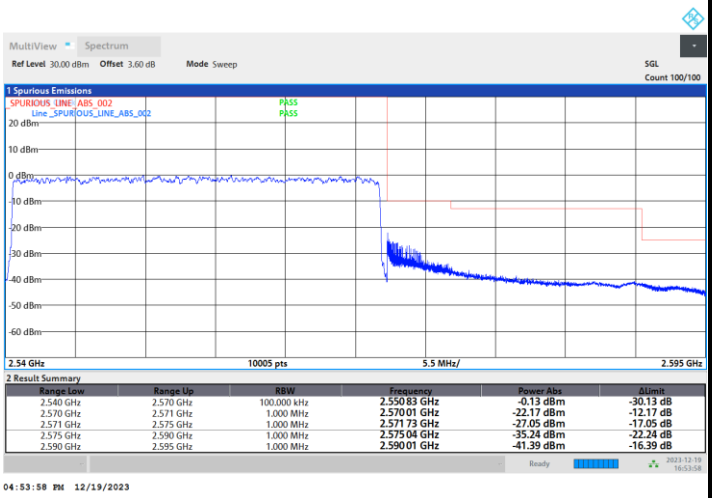
FR1 n7 / 25MHz / DFT-s-OFDM / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

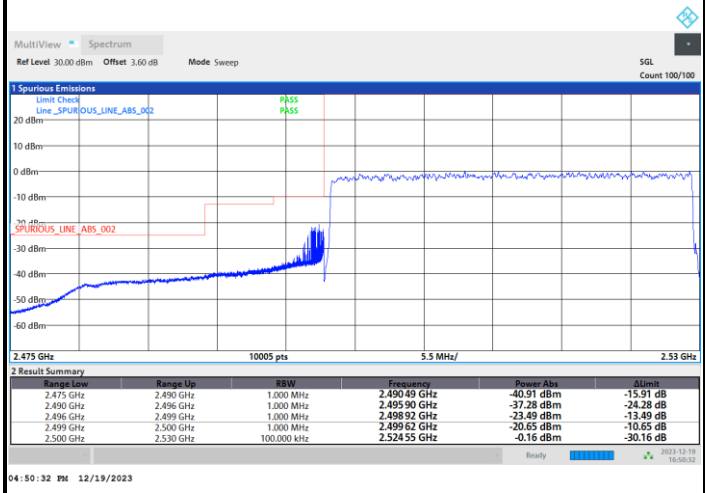
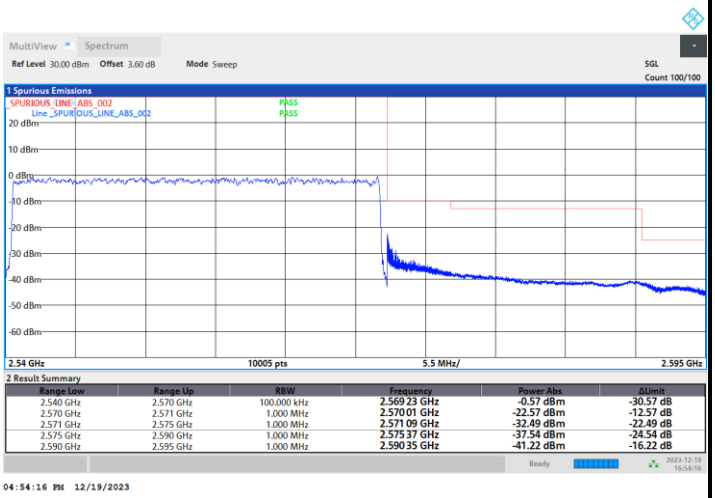
FR1 n7 / 25MHz / DFT-s-OFDM / 256QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

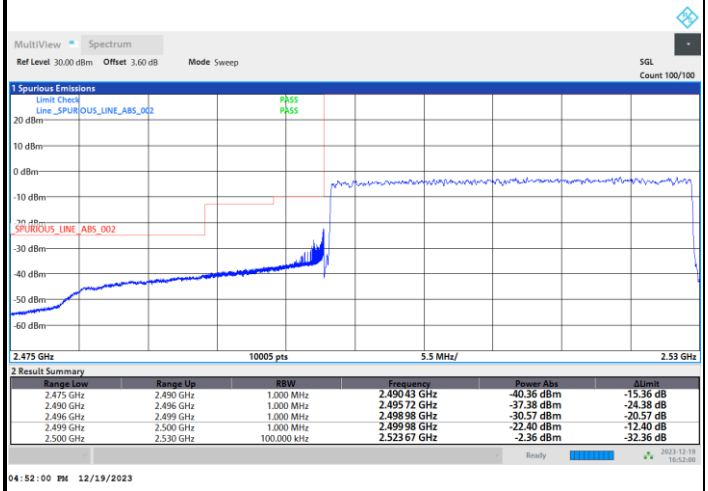
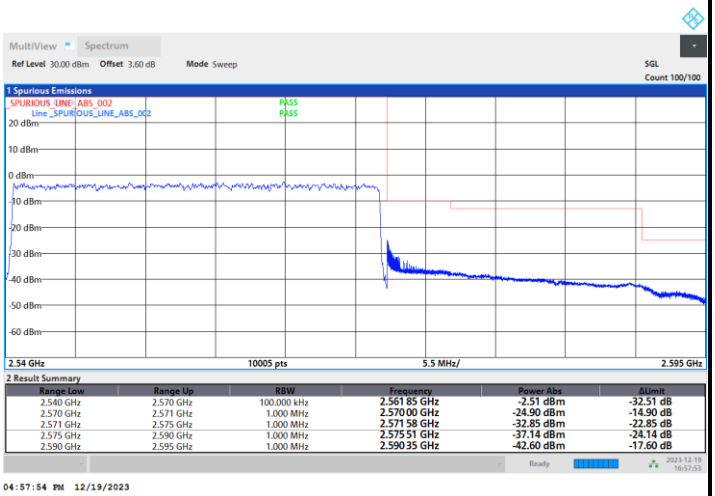
FR1 n7 / 25MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

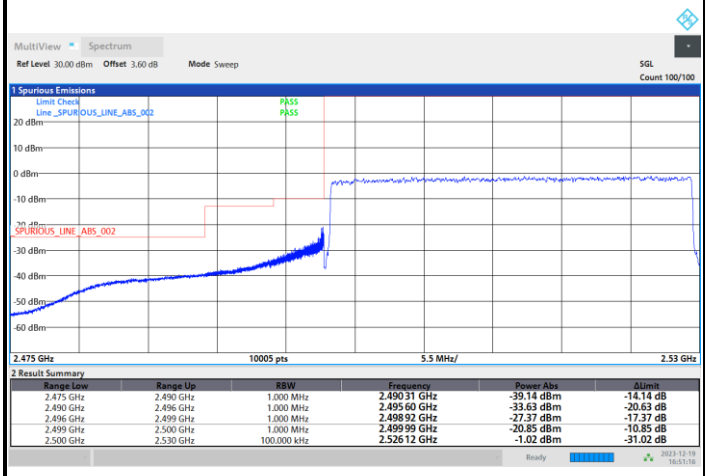
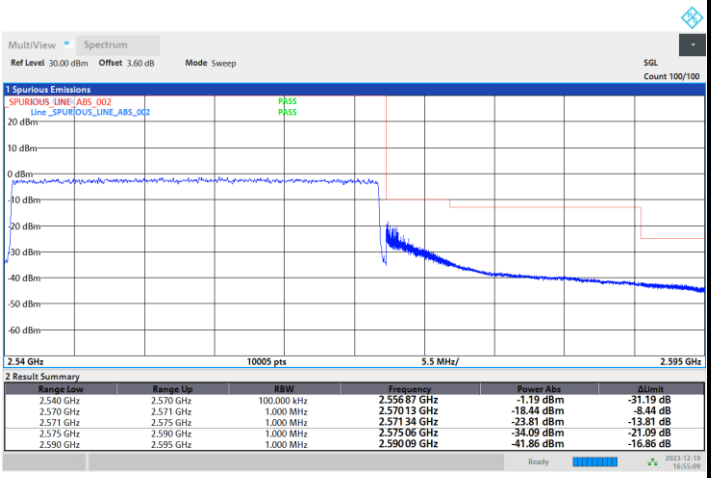
FR1 n7 / 30MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

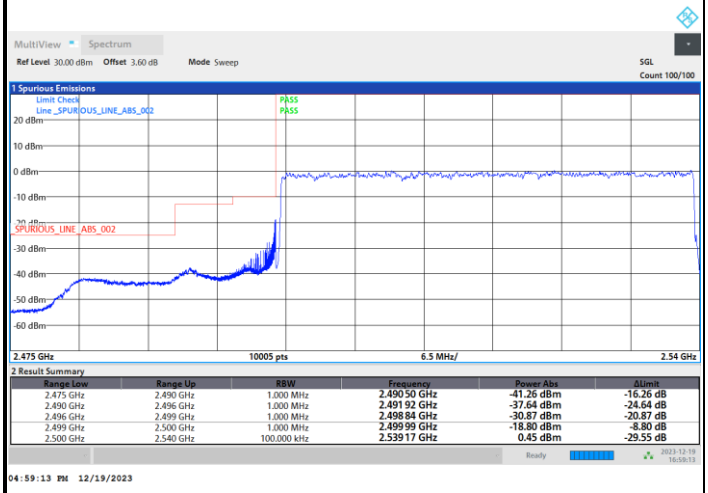
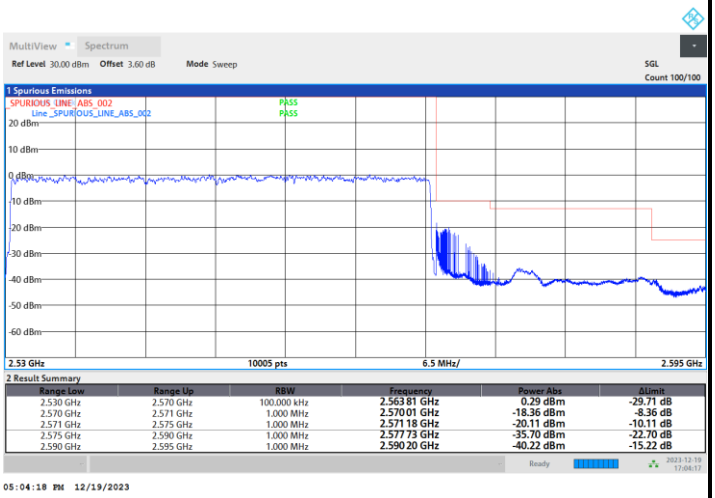
FR1 n7 / 30MHz / DFT-s-OFDM / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

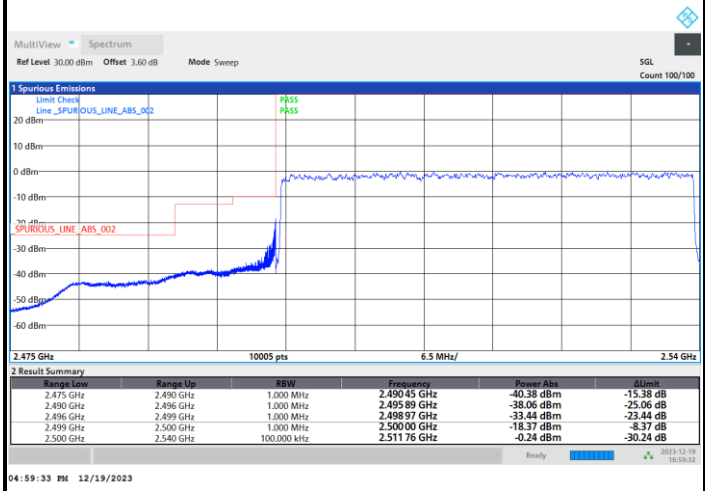
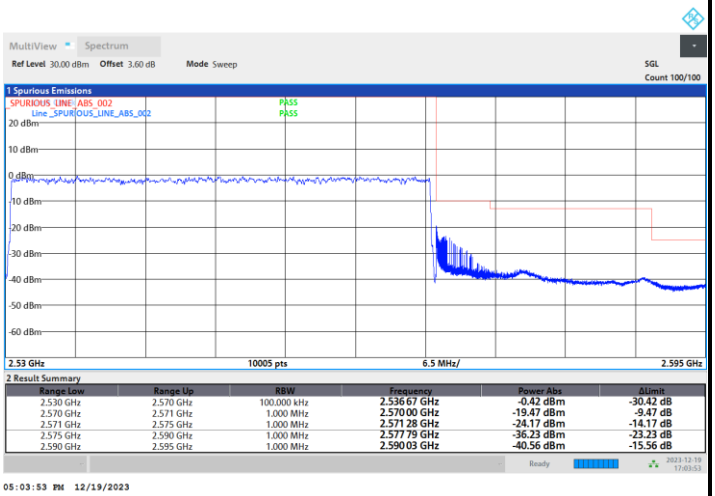
FR1 n7 / 30MHz / DFT-s-OFDM / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

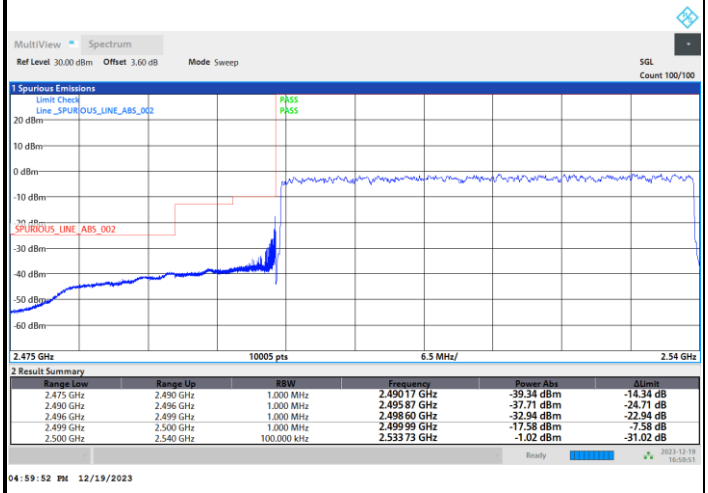
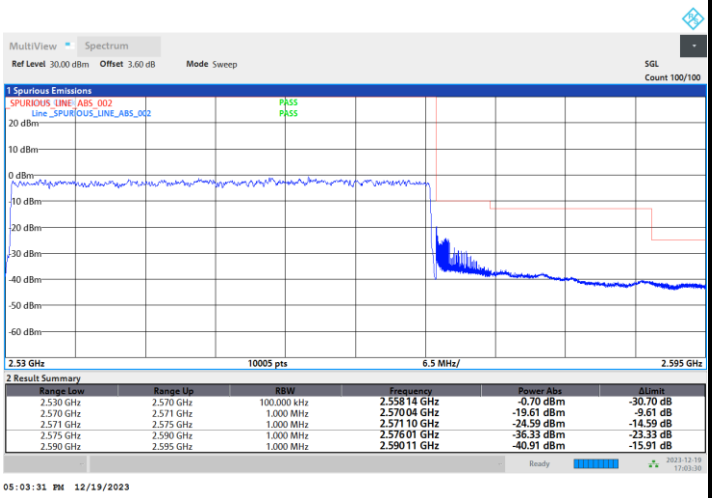
FR1 n7 / 30MHz / DFT-s-OFDM / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

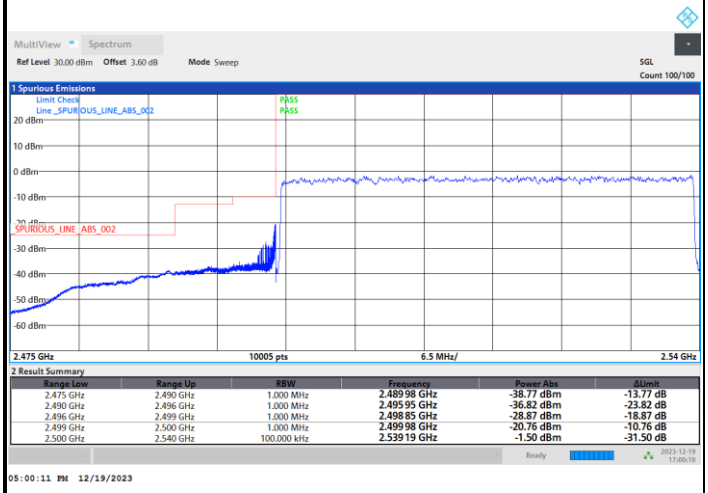
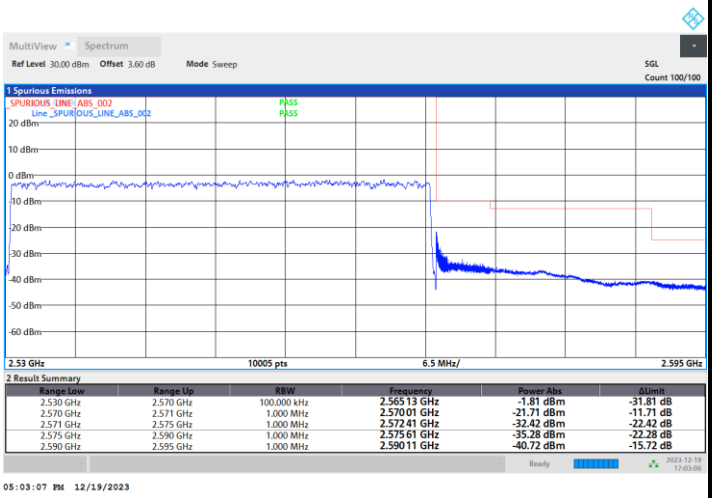
FR1 n7 / 30MHz / DFT-s-OFDM / 256QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

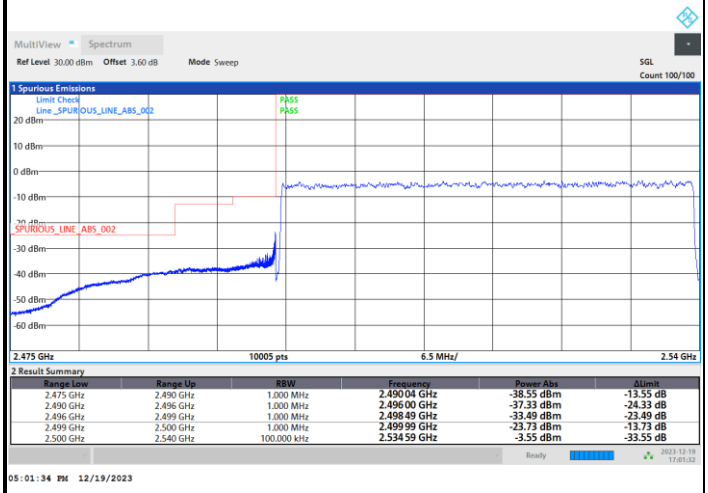
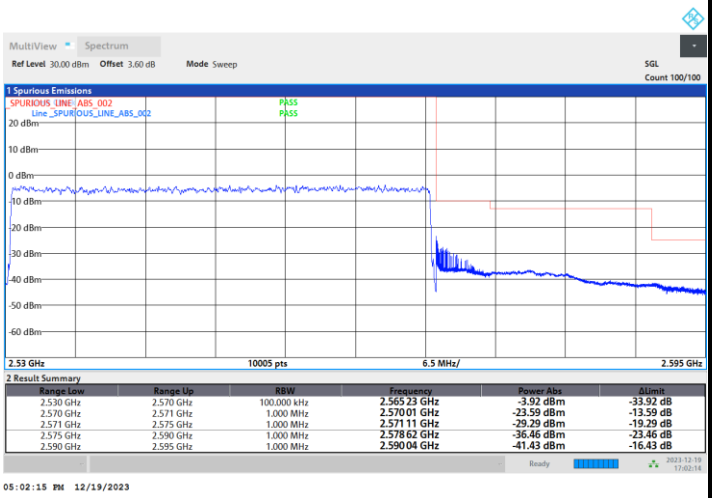
FR1 n7 / 30MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

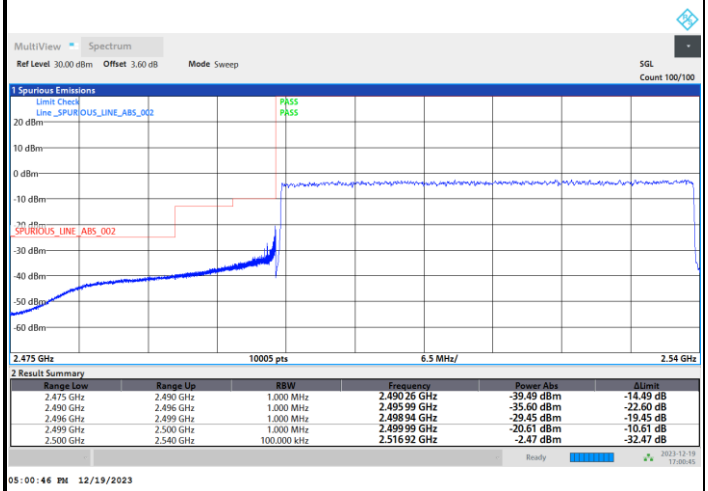
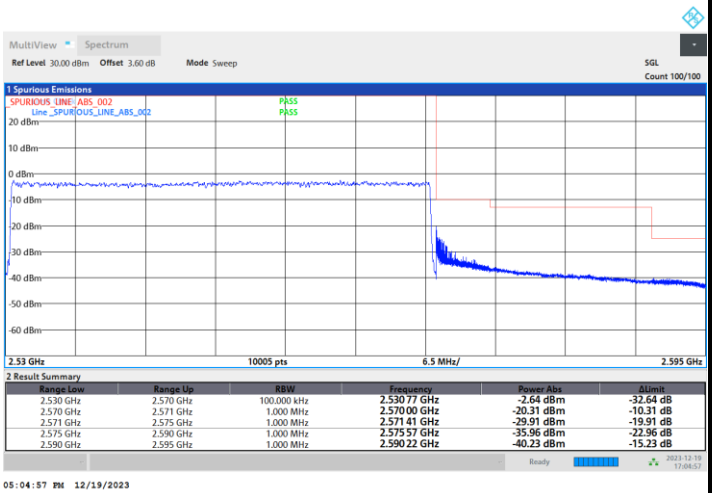
FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n7 / 40MHz / DFT-s-OFDM / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n7 / 40MHz / DFT-s-OFDM / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n7 / 40MHz / DFT-s-OFDM / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

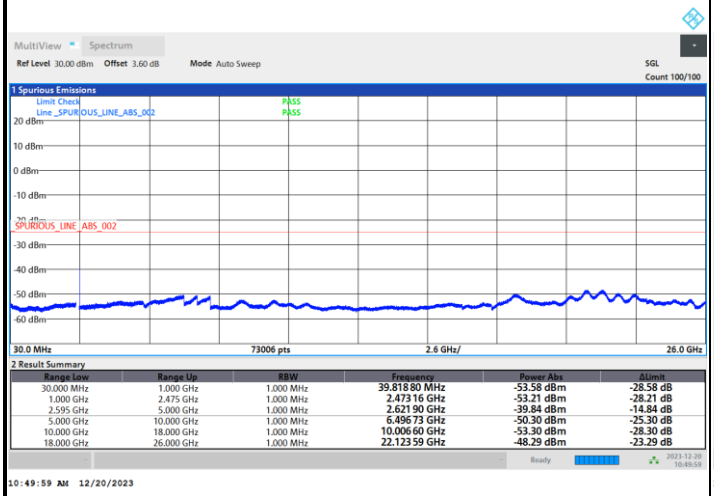
FR1 n7 / 40MHz / DFT-s-OFDM / 256QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n7 / 40MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	39.818 80 MHz	-53.58 dBm	-28.58 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.473 16 GHz	-53.21 dBm	-28.21 dB
2.595 GHz	5.000 GHz	1.000 MHz	2.621 90 GHz	-39.84 dBm	-14.84 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.496 73 GHz	-50.30 dBm	-25.30 dB
10.000 GHz	18.000 GHz	1.000 MHz	10.006 60 GHz	-53.30 dBm	-28.30 dB
18.000 GHz	26.000 GHz	1.000 MHz	22.123 59 GHz	-48.29 dBm	-23.29 dB

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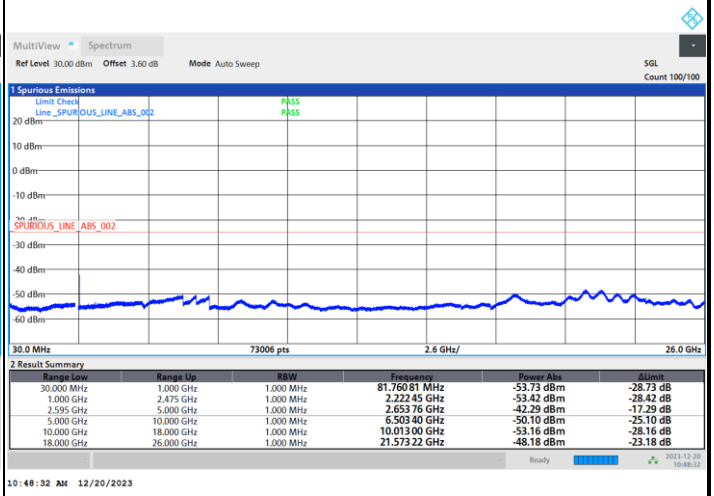
Middle Channel

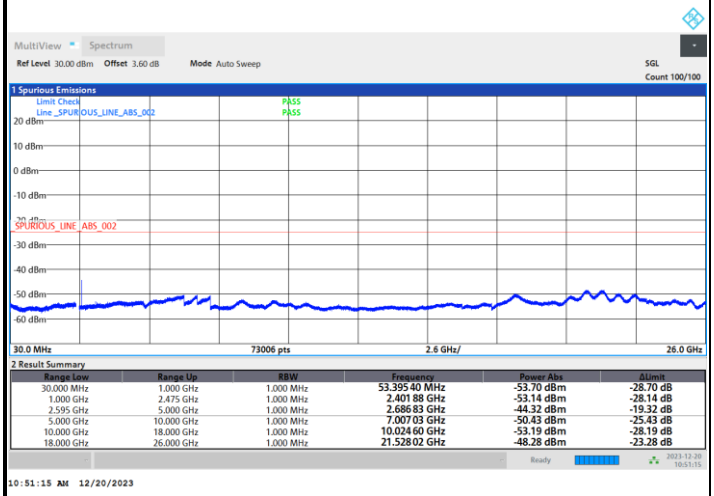


2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	81.760 81 MHz	-53.73 dBm	-28.73 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.222 45 GHz	-53.42 dBm	-28.42 dB
2.595 GHz	5.000 GHz	1.000 MHz	2.653 76 GHz	-42.29 dBm	-17.29 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.503 40 GHz	-50.10 dBm	-25.10 dB
10.000 GHz	18.000 GHz	1.000 MHz	10.013 00 GHz	-53.16 dBm	-28.16 dB
18.000 GHz	26.000 GHz	1.000 MHz	21.573 22 GHz	-48.18 dBm	-23.18 dB

10:48:32 AM 12/20/2023

Highest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	53.395 40 MHz	-53.70 dBm	-28.70 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.401 88 GHz	-53.14 dBm	-28.14 dB
2.595 GHz	5.000 GHz	1.000 MHz	2.686 83 GHz	-44.32 dBm	-19.32 dB
5.000 GHz	10.000 GHz	1.000 MHz	7.007 03 GHz	-50.43 dBm	-25.43 dB
10.000 GHz	18.000 GHz	1.000 MHz	10.024 60 GHz	-53.19 dBm	-28.19 dB
18.000 GHz	26.000 GHz	1.000 MHz	21.528 02 GHz	-48.28 dBm	-23.28 dB

10:51:15 AM 12/20/2023

Frequency Stability

Test Conditions		FR1 n7 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0177	PASS
40	Normal Voltage	0.0225	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0216	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0181	
-20	Normal Voltage	0.0192	
-30	Normal Voltage	0.0163	
20	Maximum Voltage	0.0264	
20	Normal Voltage	0.0119	
20	Battery End Point	0.0144	

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.

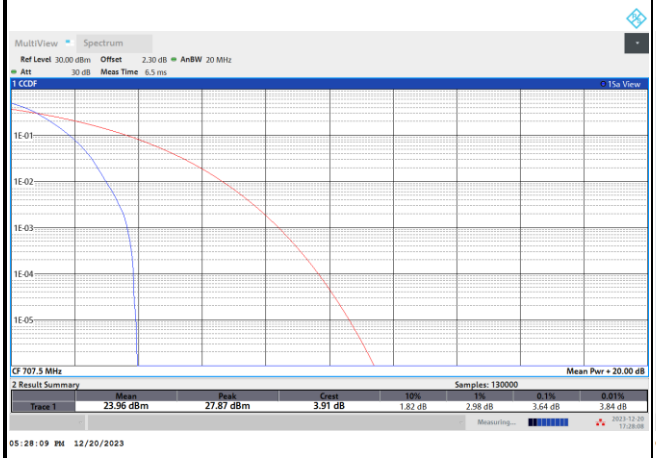
FR1 n12

Peak-to-Average Ratio

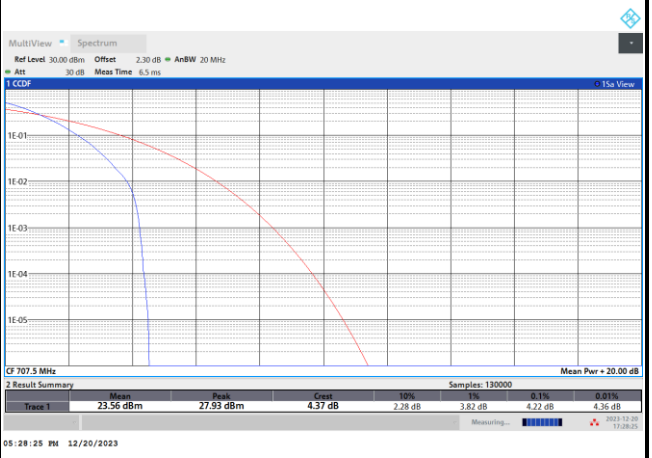
Mode	FR1 n12 / 15MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.64	4.22	5.08	5.50	PASS
Mode	FR1 n12 / 15MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.44				PASS

FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

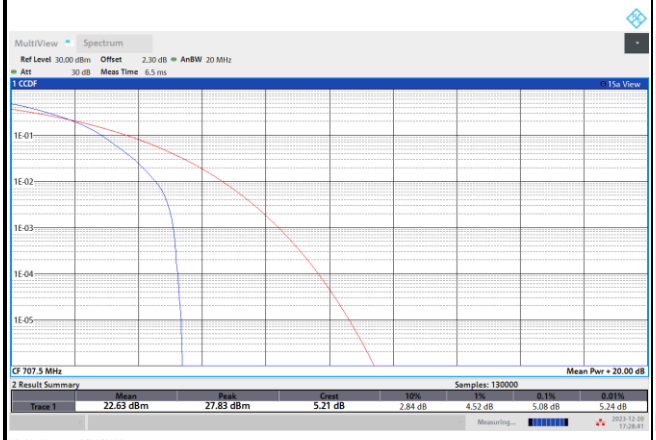
PI/2 BPSK



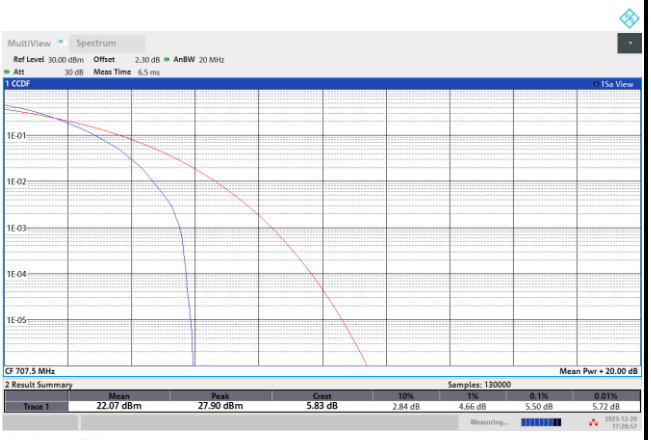
QPSK



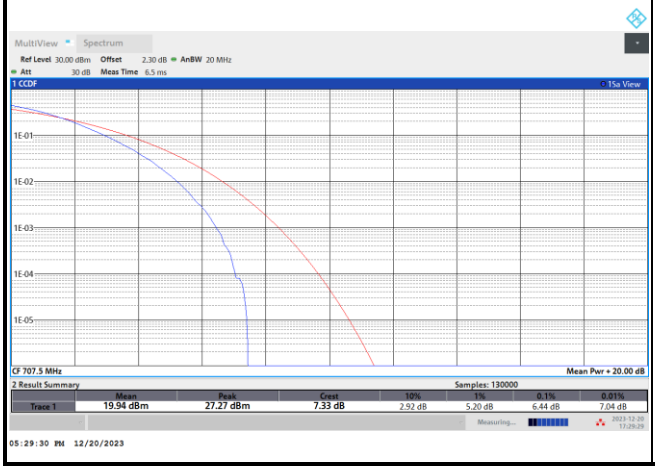
16QAM



64QAM



256QAM



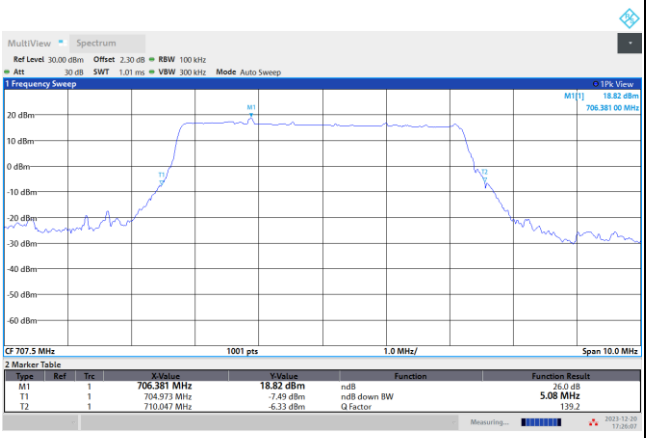
26dB Bandwidth

Mode	FR1 n12 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	5.08		9.75		14.33			

Mode	FR1 n12 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	5.22	5.17	10.21	10.33	15.35	15.22		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	5.17	5.22	10.21	10.17	15.29	15.16		

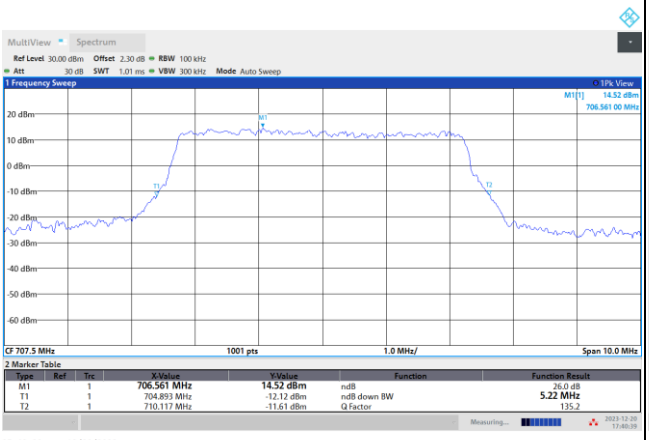
FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

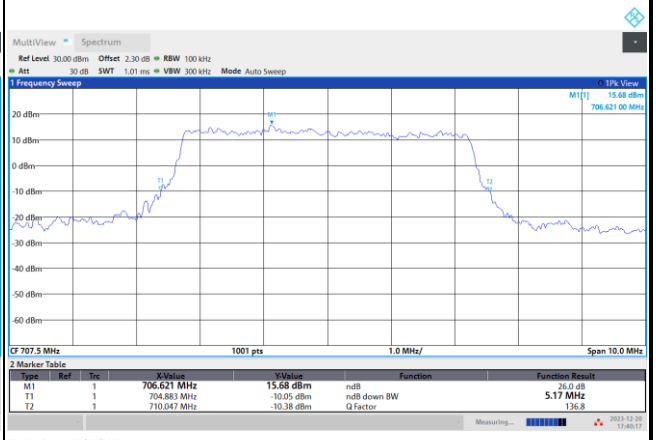


FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB

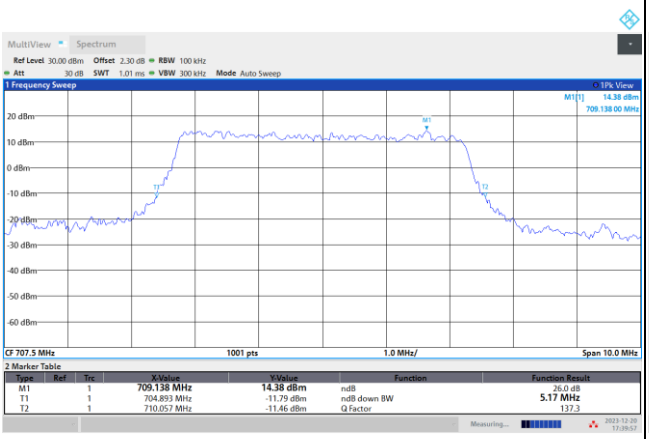
QPSK



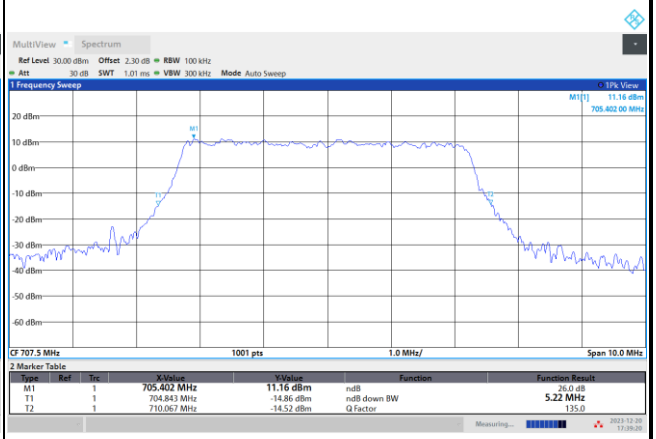
16QAM



64QAM

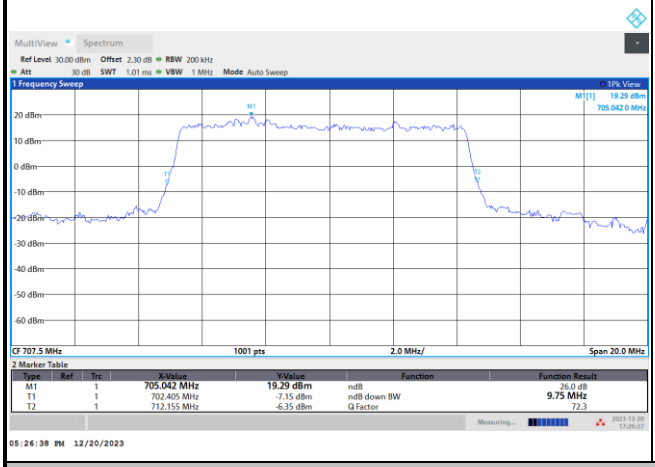


256QAM



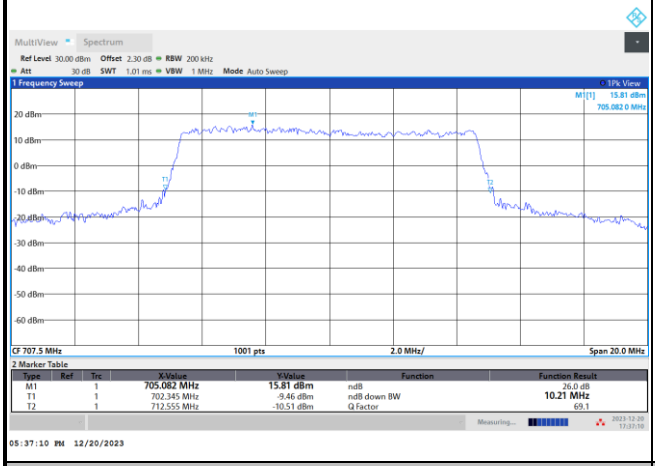
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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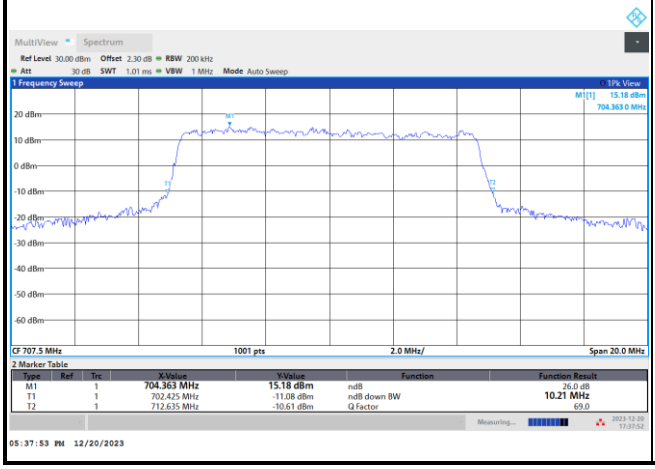

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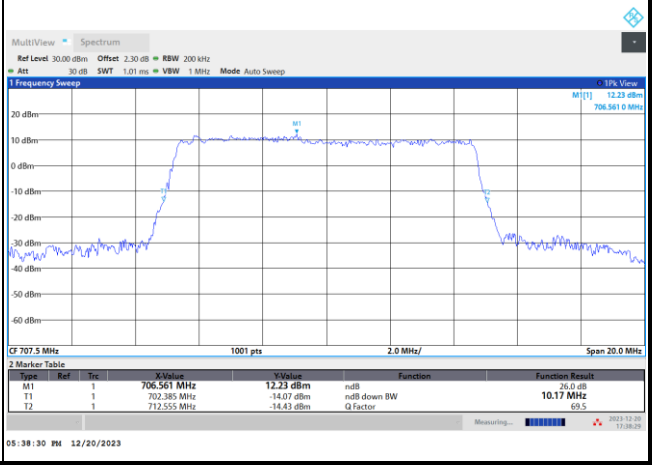
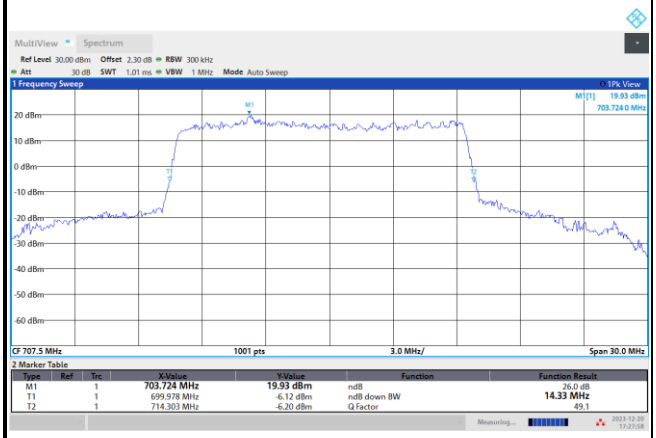


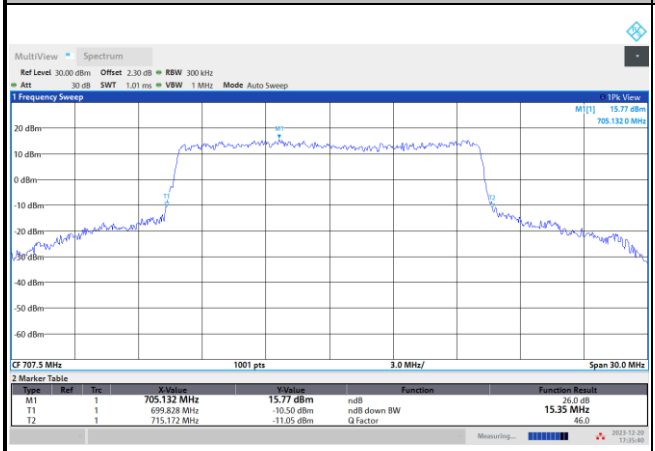
FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

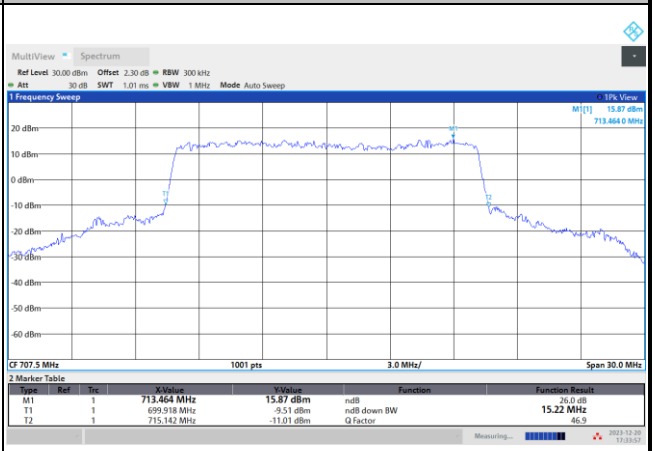


FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB

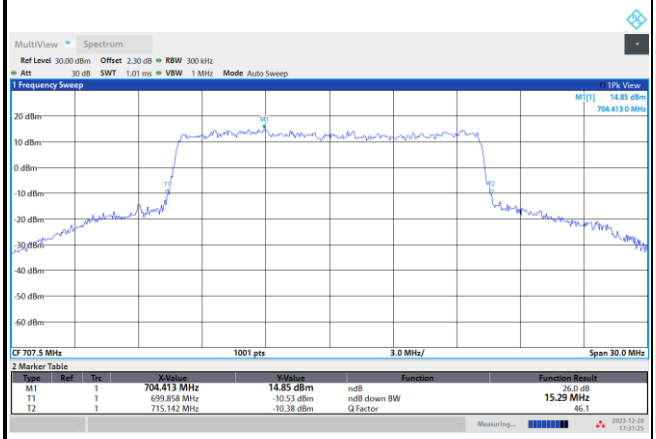
QPSK



16QAM



64QAM



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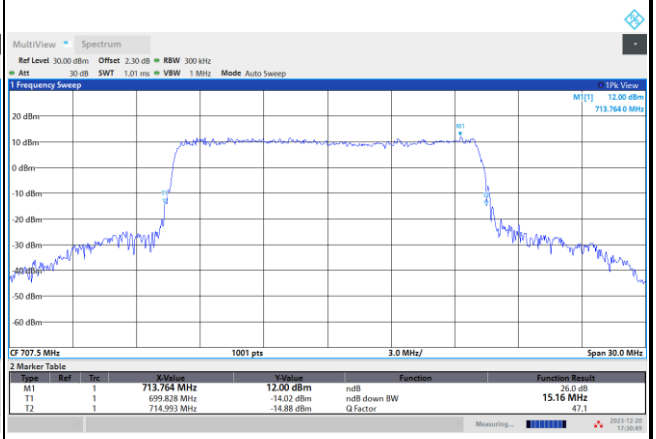


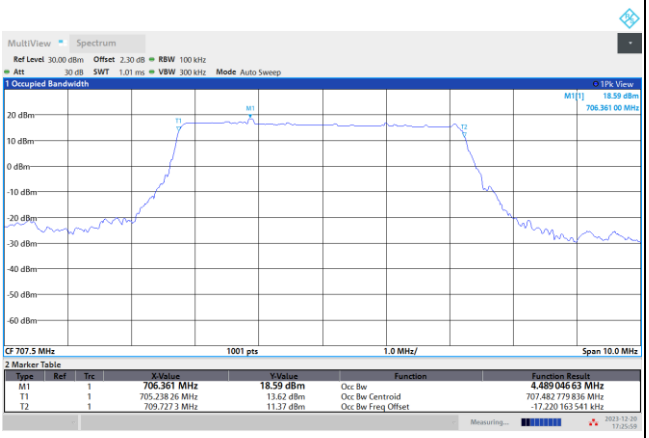
Occupied Bandwidth

Mode	FR1 n12 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	4.48		8.97		13.44			

Mode	FR1 n12 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	4.51	4.52	9.34	9.34	14.17	14.17		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	4.54	4.52	9.32	9.35	14.16	14.13		

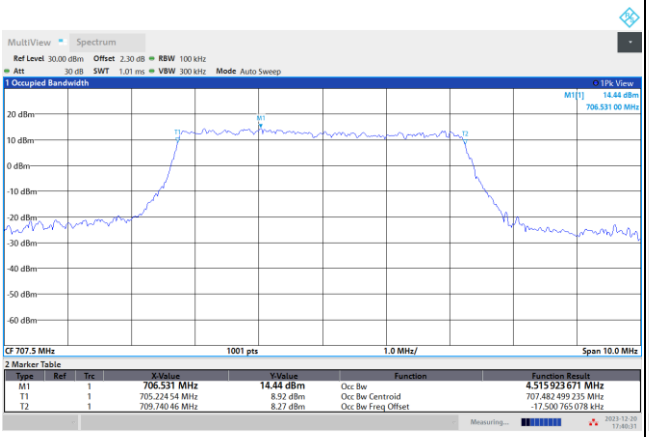
FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

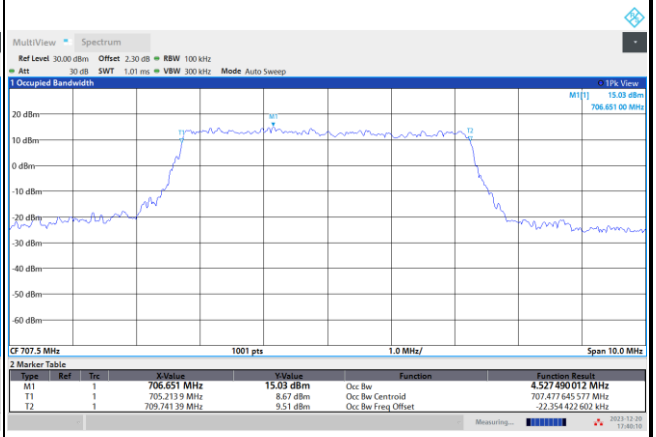


FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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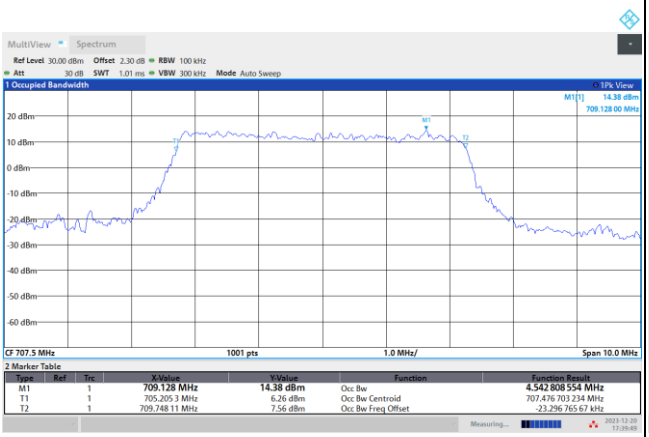
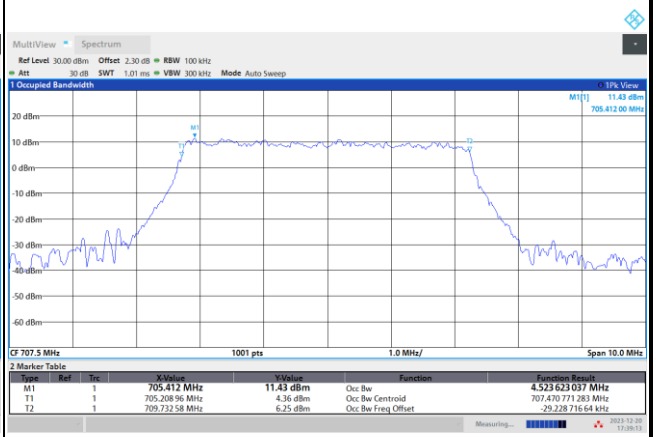
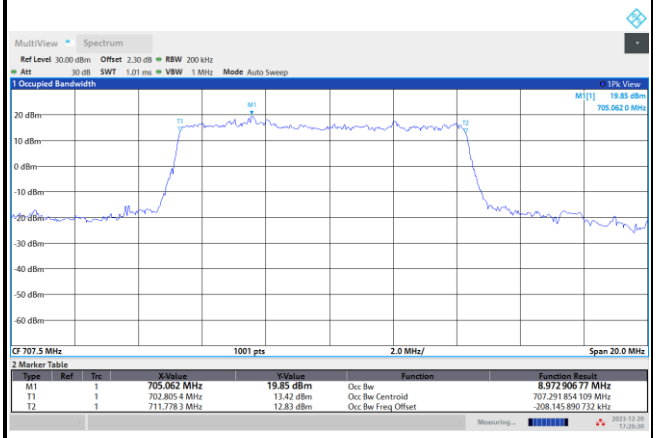


256QAM



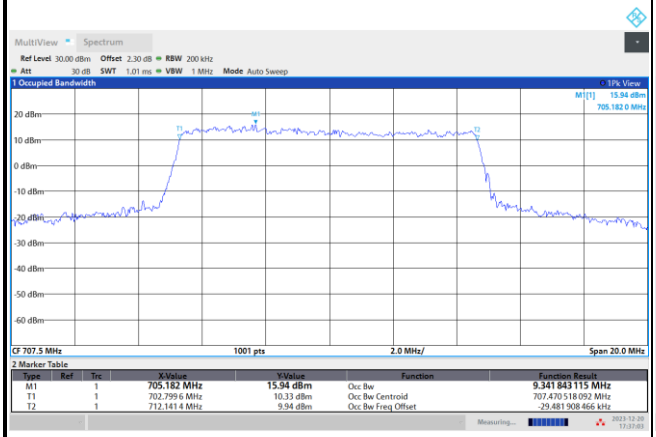
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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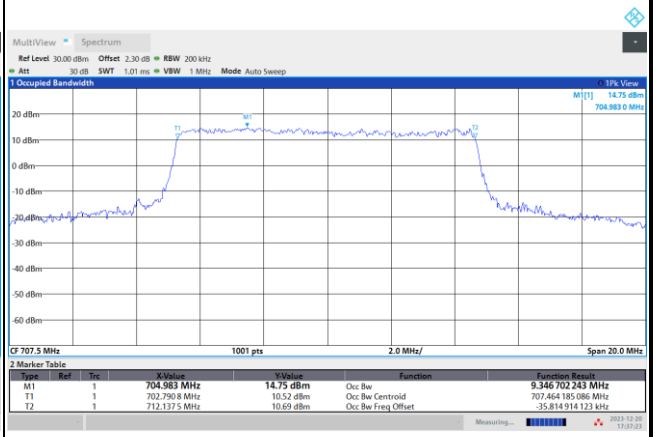

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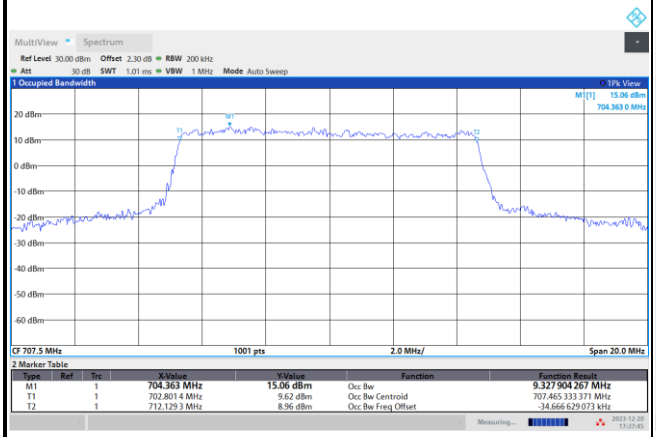

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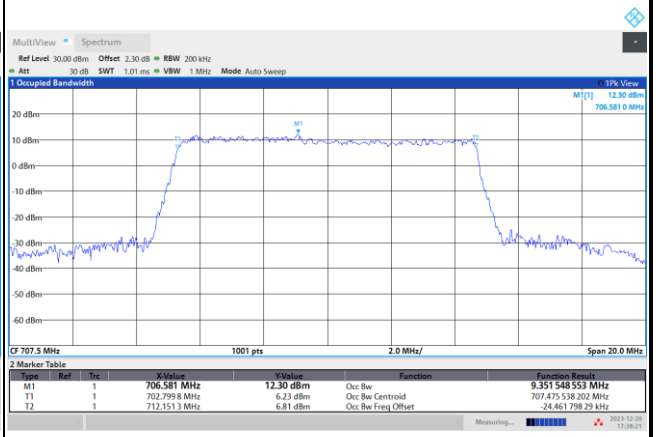
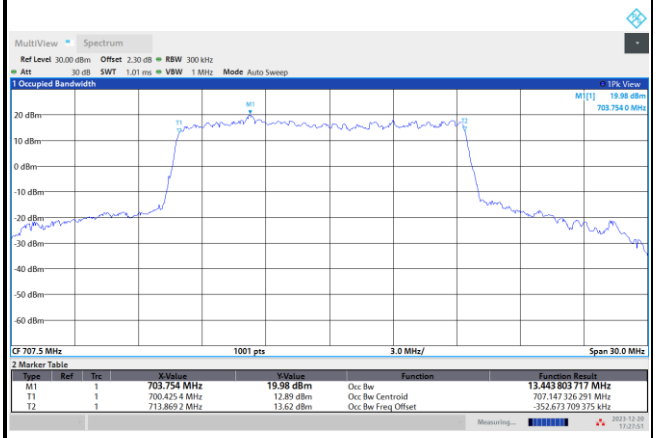


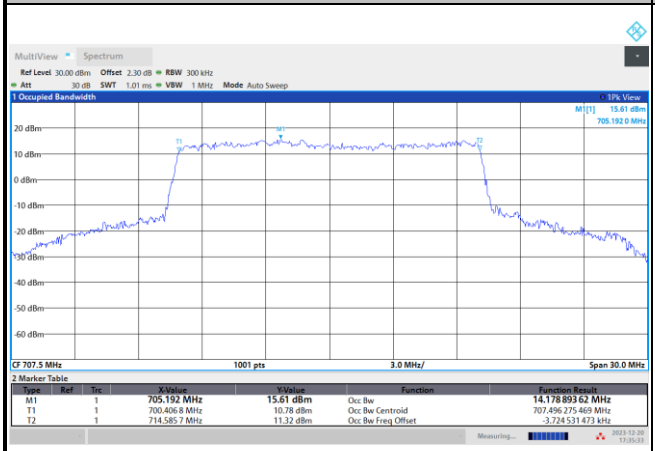
FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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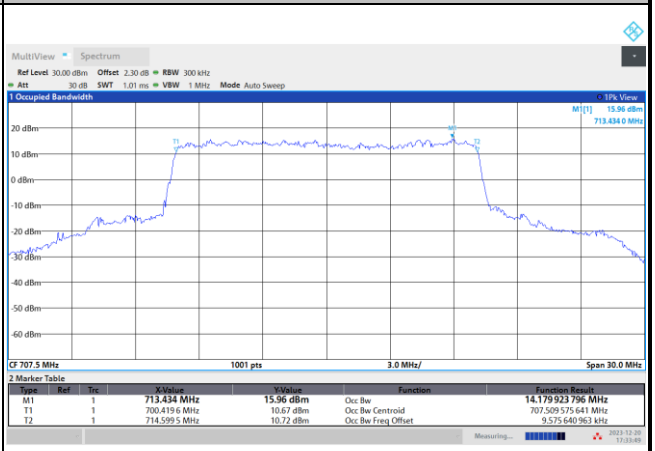

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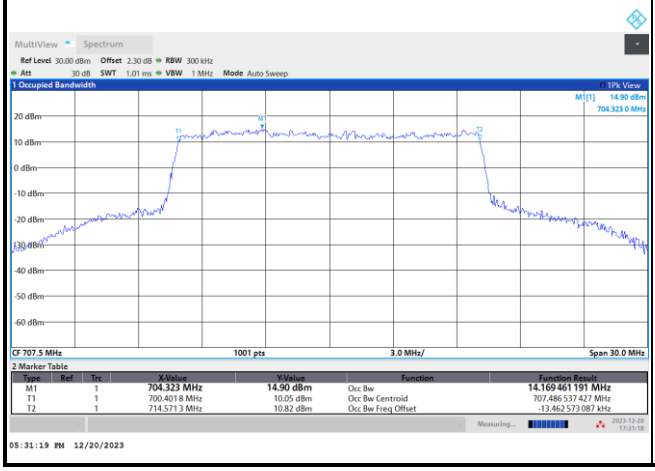

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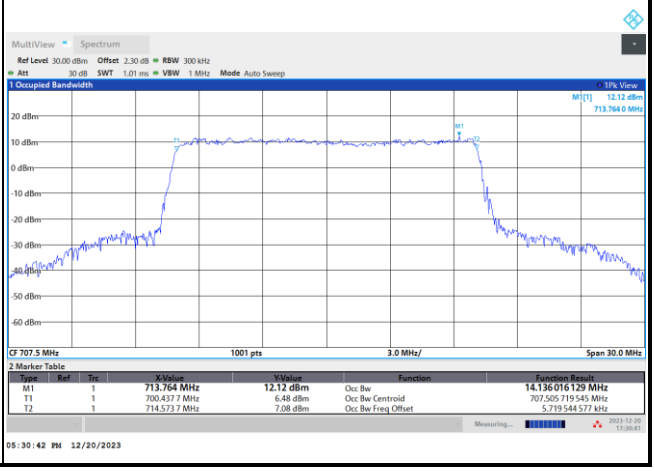
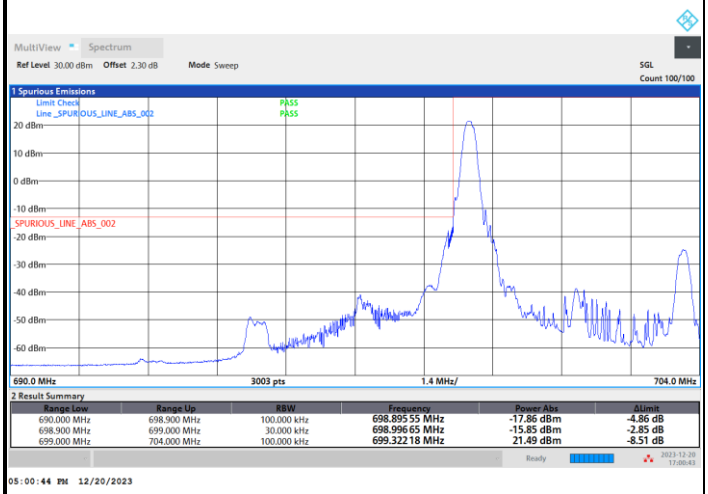


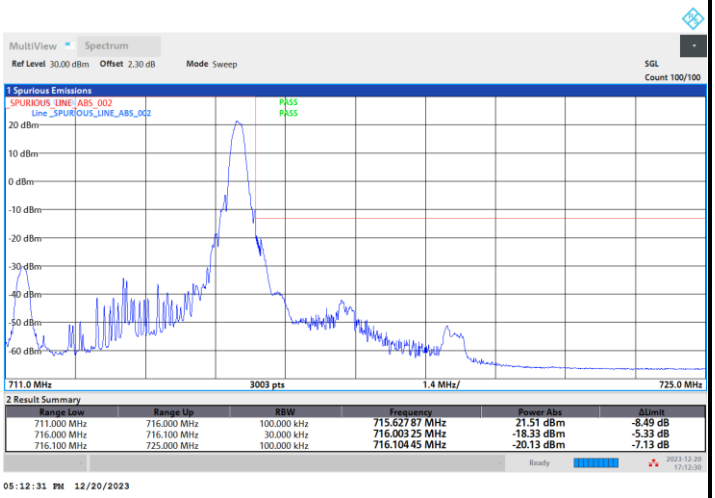
Conducted Band Edge

FR1 n12 / 5MHz / DFT-S OFDM / PI/2 BPSK

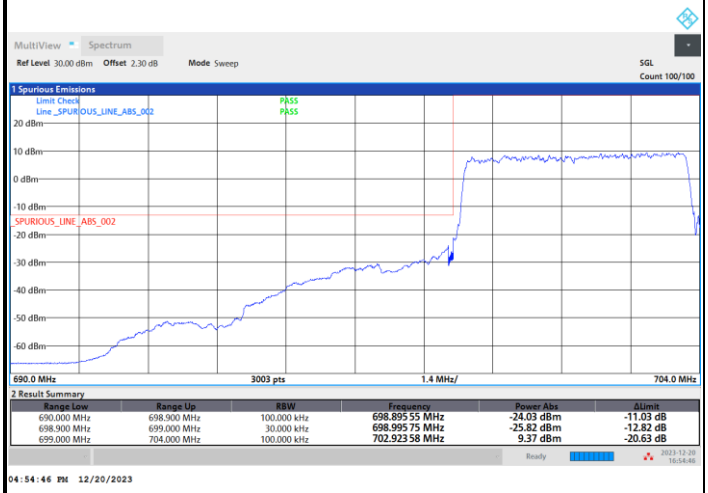
Lowest Band Edge / 1RB0



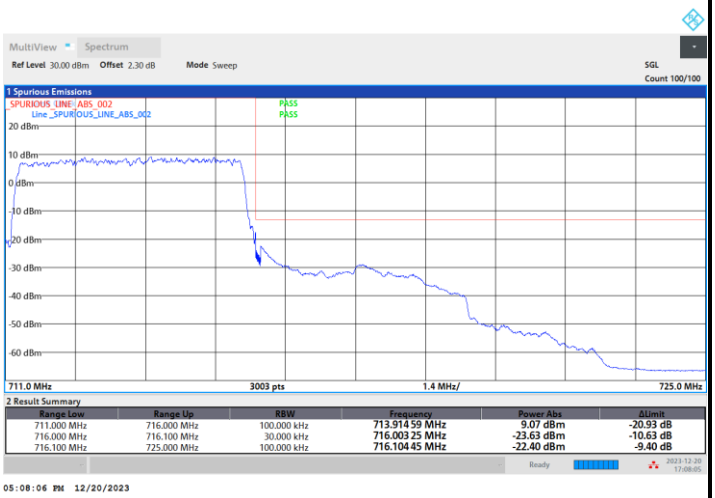
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

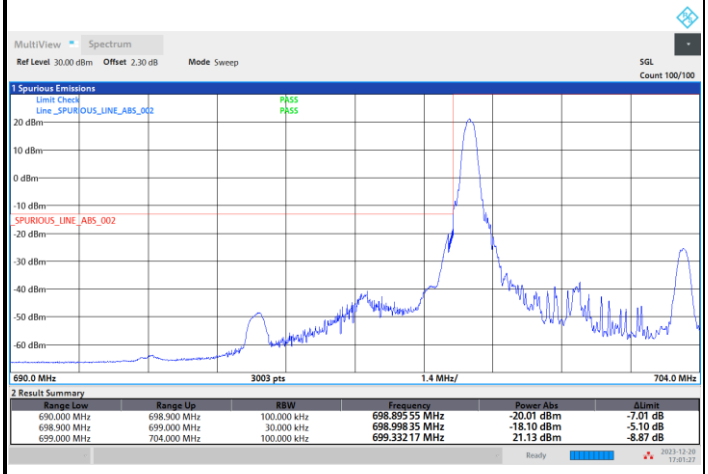


Highest Band Edge / Full RB

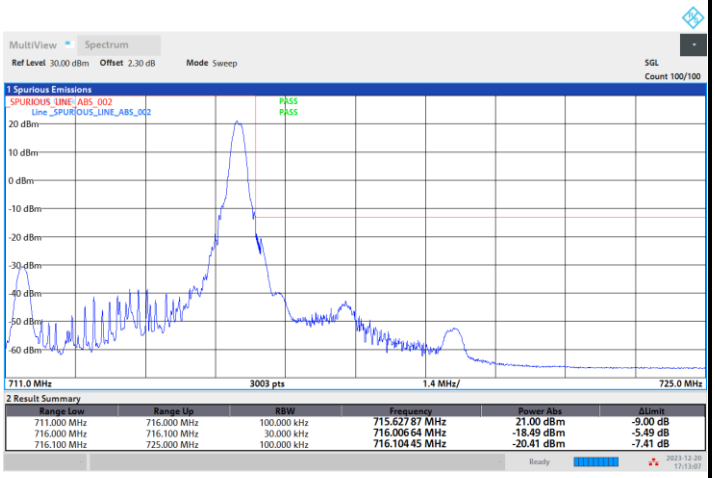


FR1 n12 / 5MHz / DFT-S OFDM / QPSK

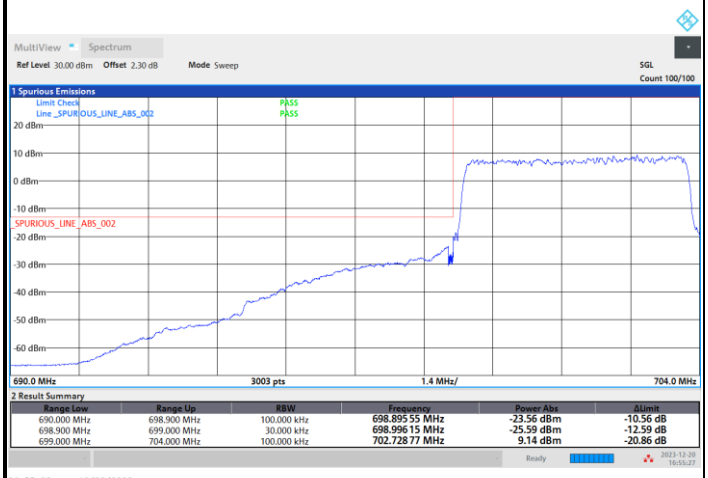
Lowest Band Edge / 1RB0



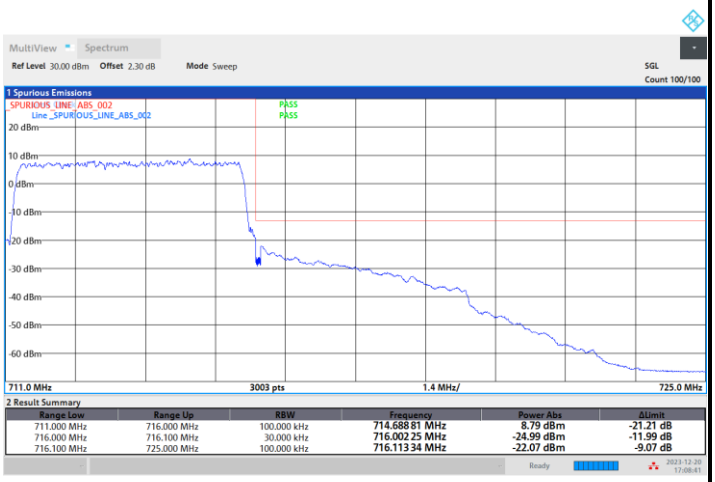
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

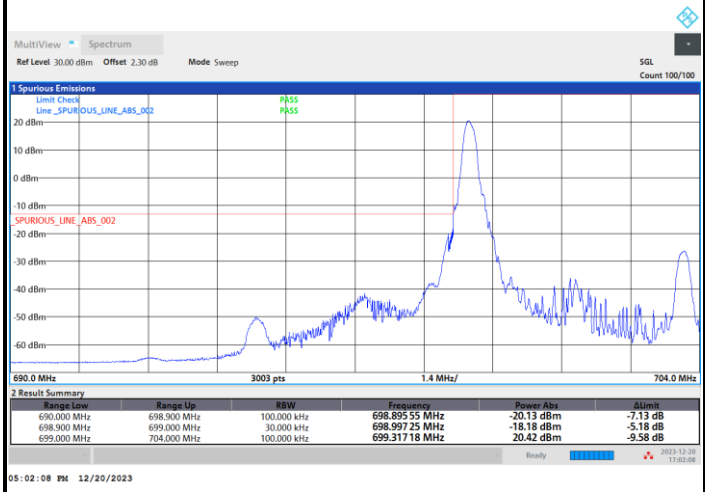


Highest Band Edge / Full RB

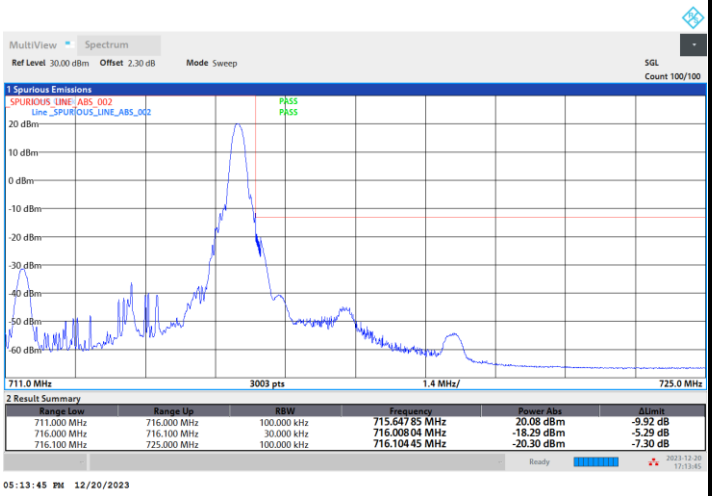


FR1 n12 / 5MHz / DFT-S OFDM / 16QAM

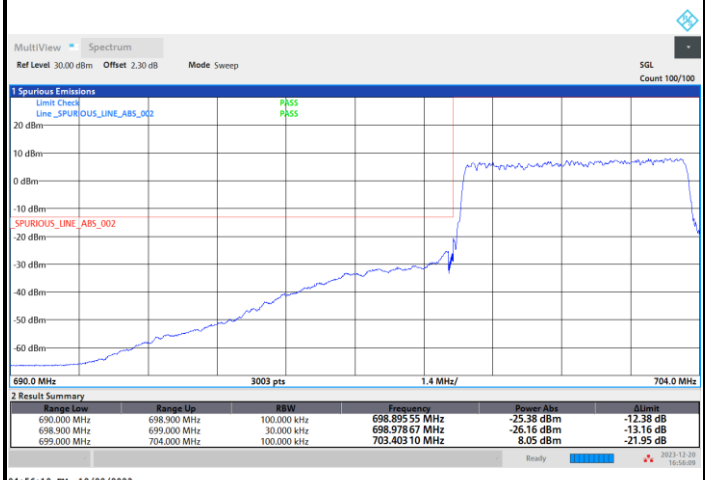
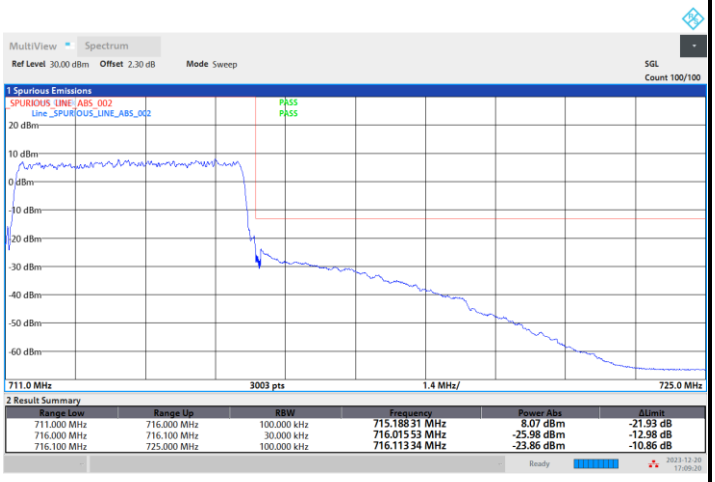
Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB