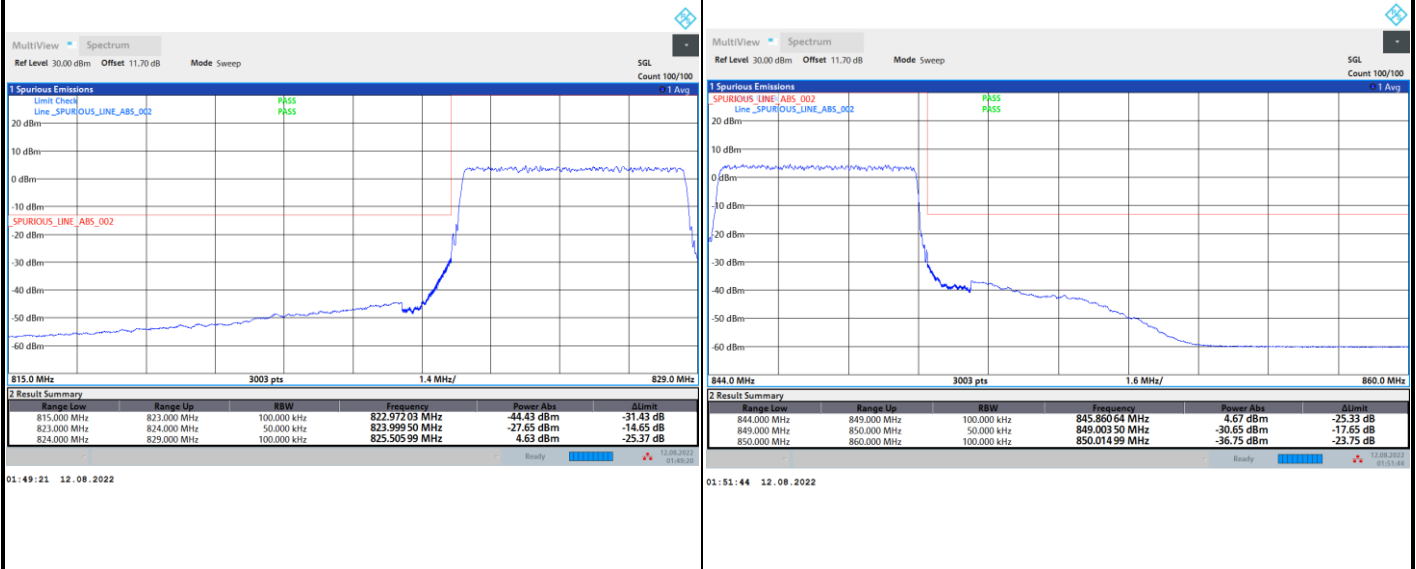


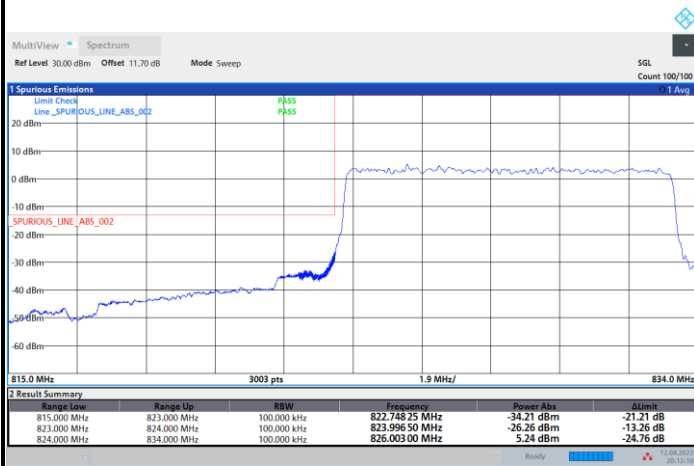
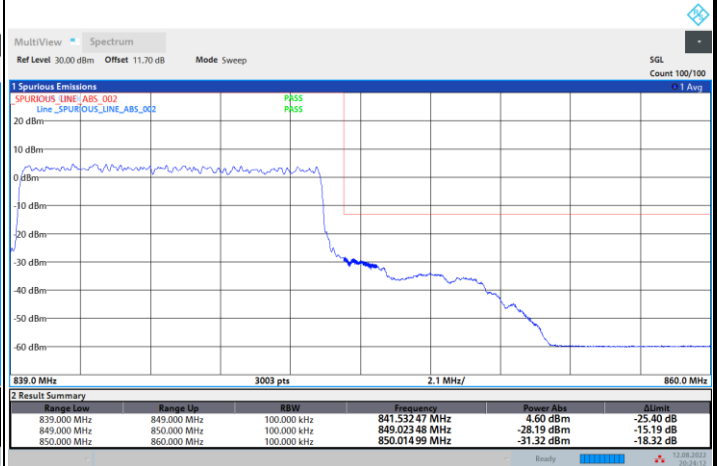
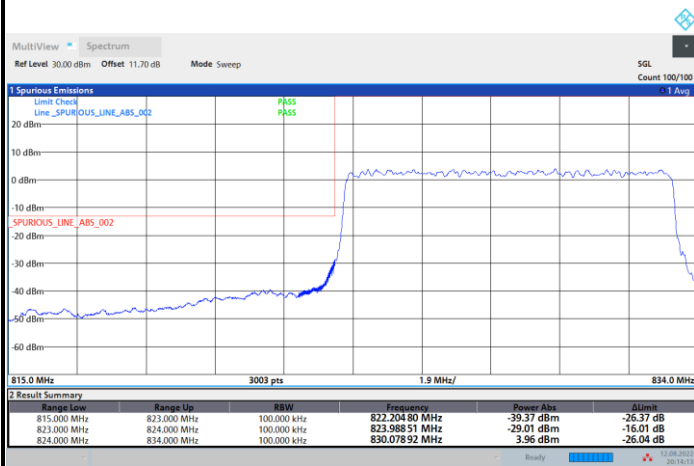
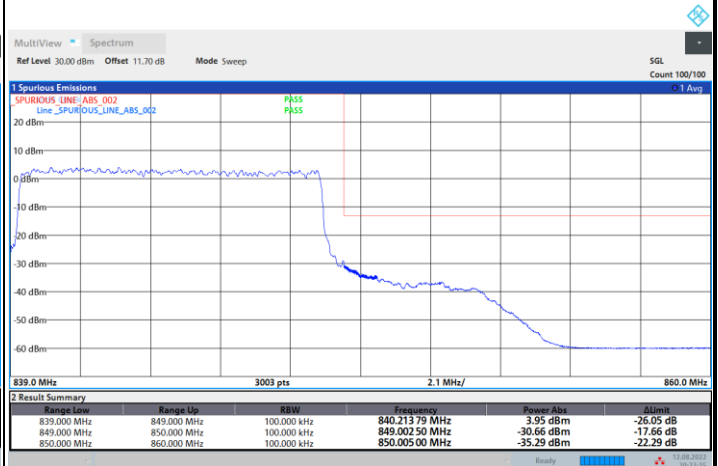


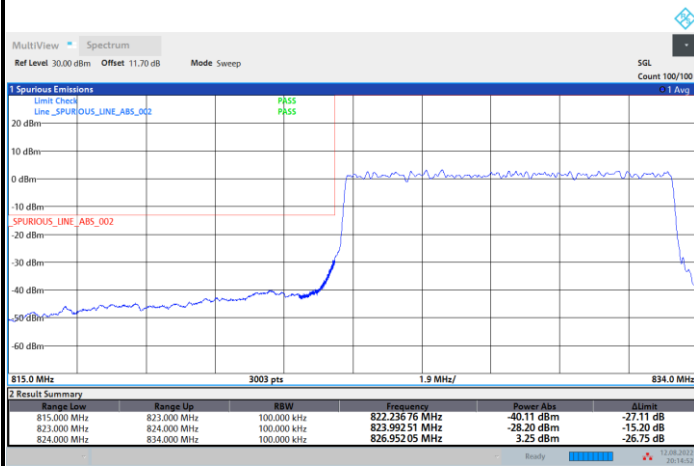
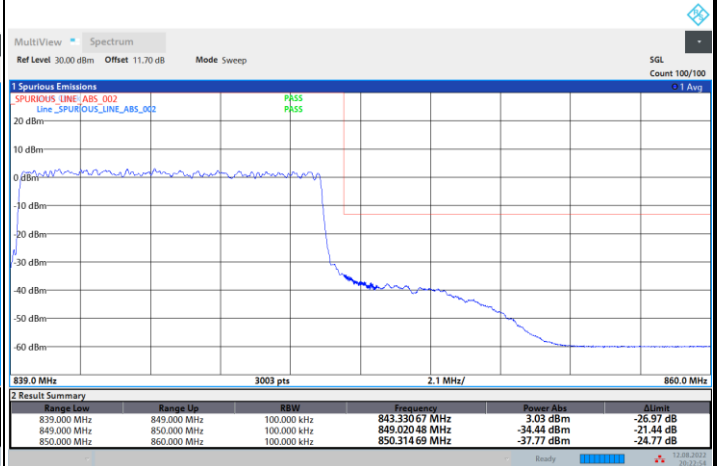
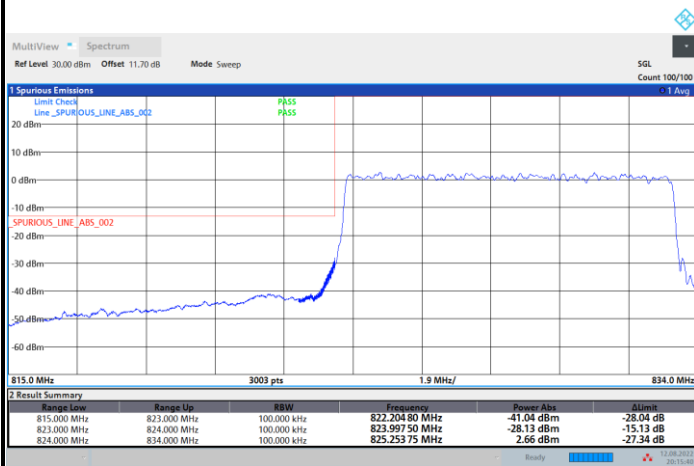
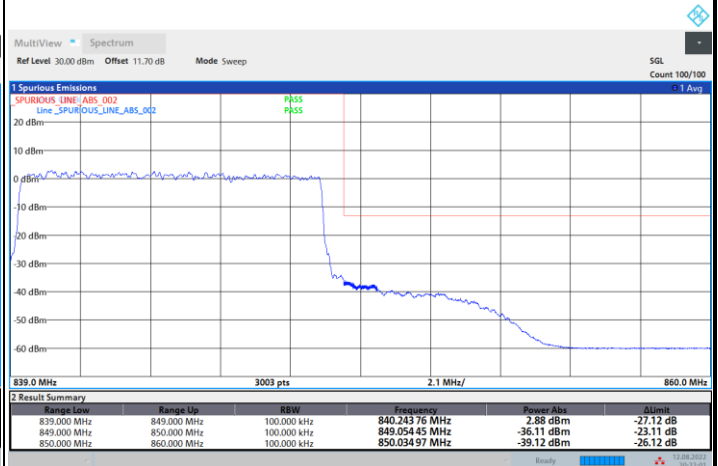
FR1 n5 / 5MHz / CP OFDM / QPSK / Full RB

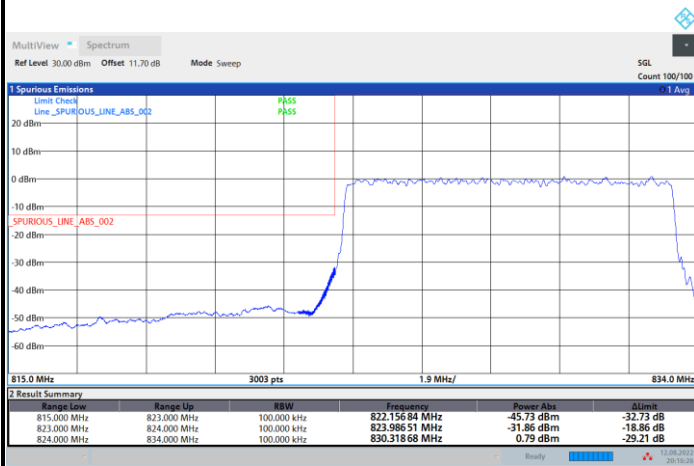
Lowest Band Edge

Highest Band Edge

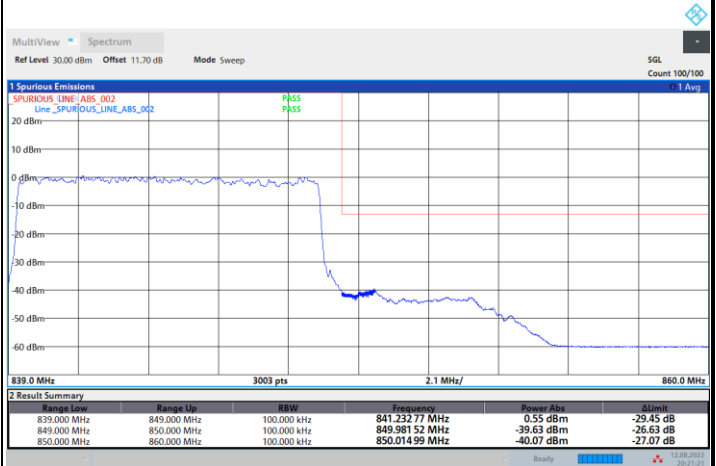


**FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB****Lowest Band Edge****Highest Band Edge****FR1 n5 / 10MHz / DFT-s-OFDM / QPSK / Full RB****Lowest Band Edge****Highest Band Edge**

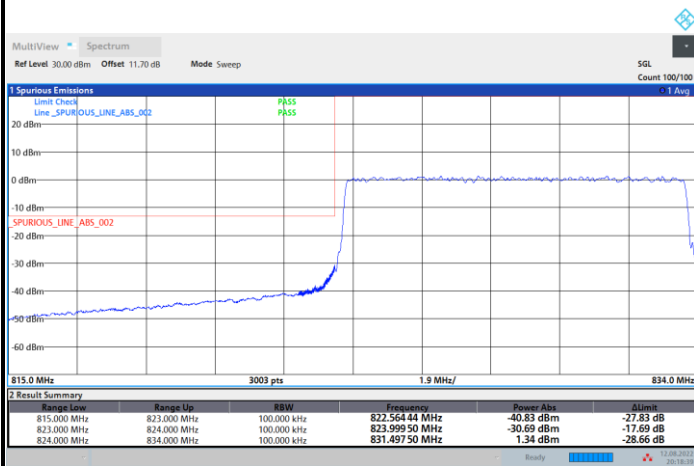
**FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM / Full RB****Lowest Band Edge****Highest Band Edge****FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM / Full RB****Lowest Band Edge****Highest Band Edge**

**FR1 n5 / 10MHz / DFT-s-OFDM / 256QAM / Full RB****Lowest Band Edge**

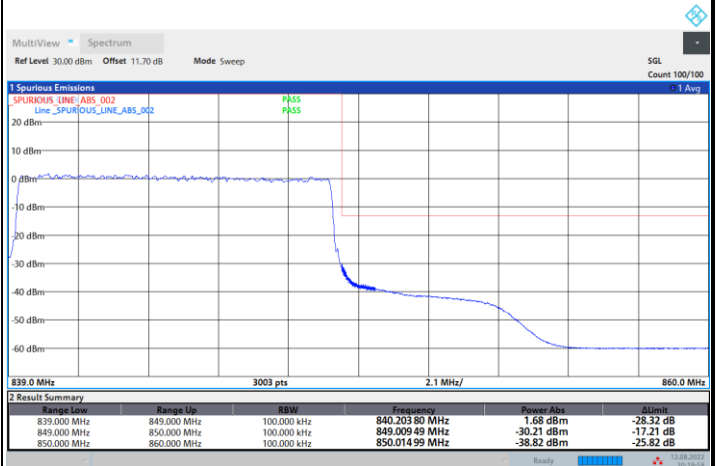
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Highest Band Edge

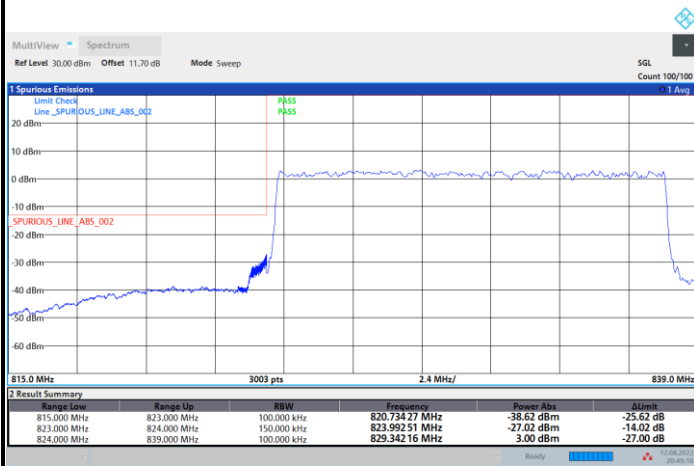
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FR1 n5 / 10MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

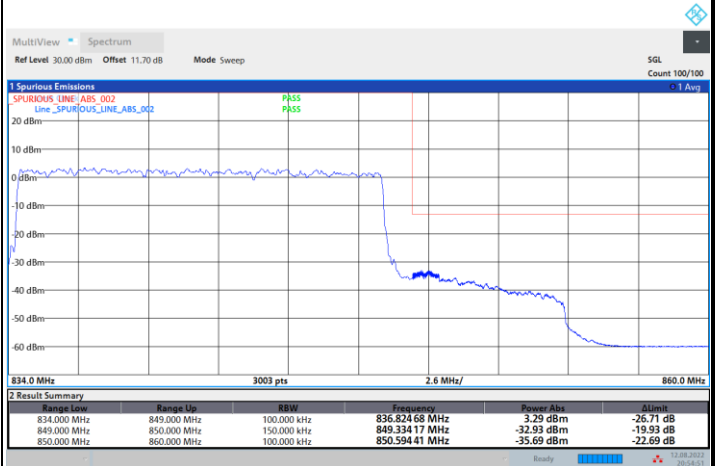
20:18:40 12. 08. 2022

Highest Band Edge

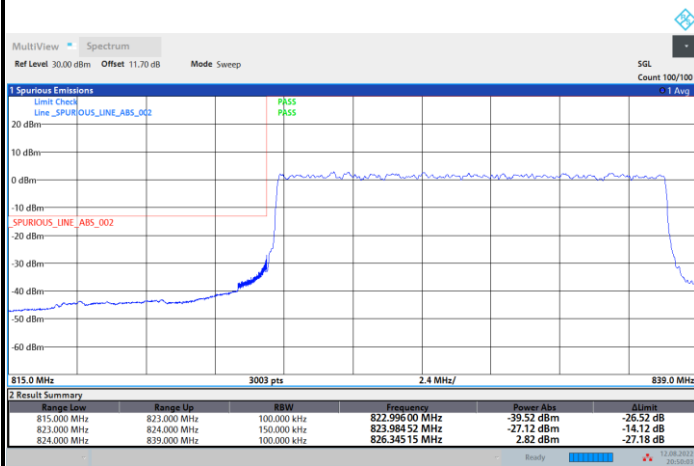
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**FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB****Lowest Band Edge**

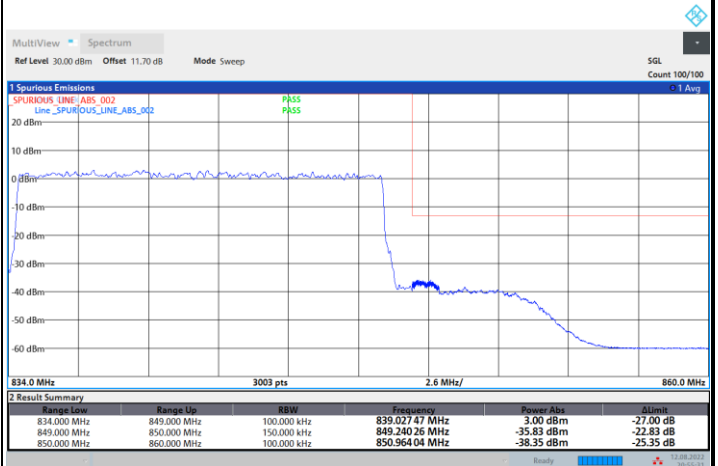
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Highest Band Edge

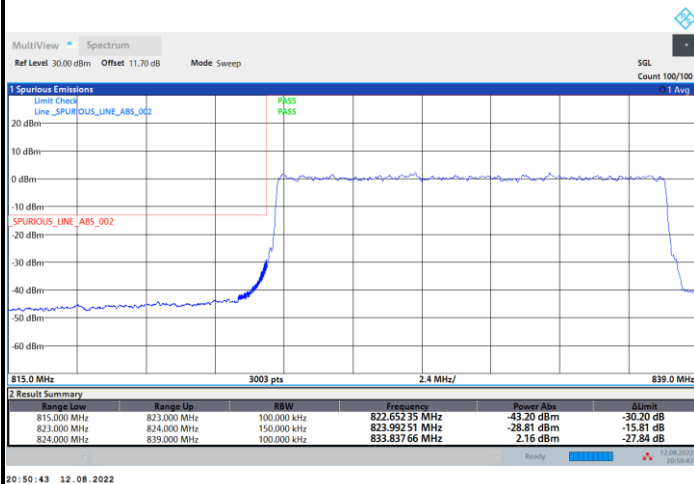
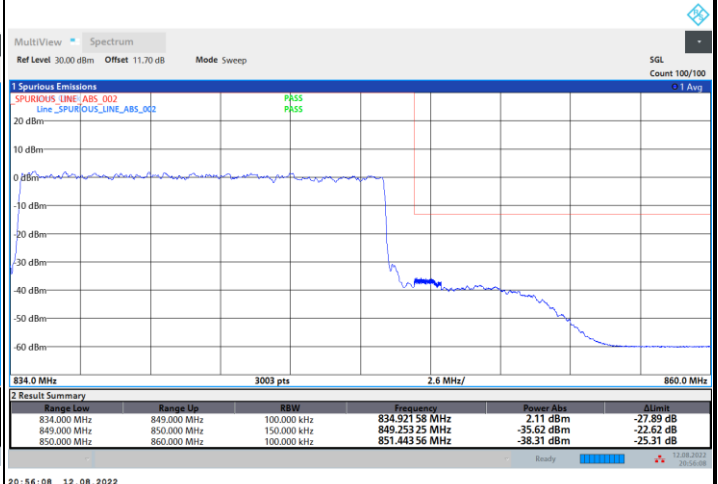
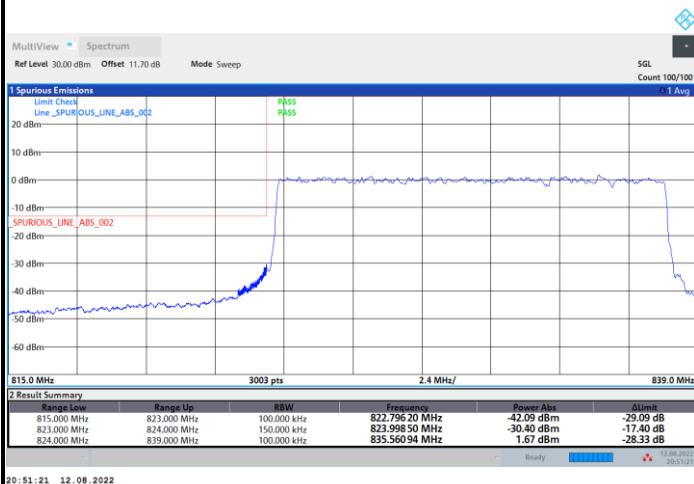
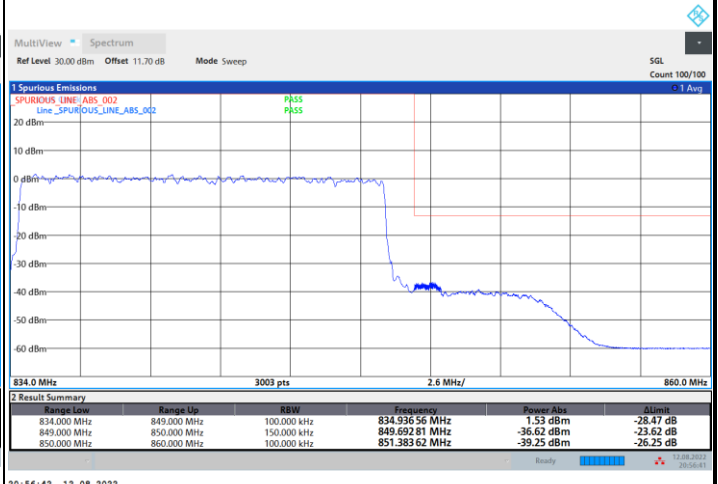
20:54:52 12. 08. 2022

FR1 n5 / 15MHz / DFT-s-OFDM / QPSK / Full RB**Lowest Band Edge**

20:50:03 12. 08. 2022

Highest Band Edge

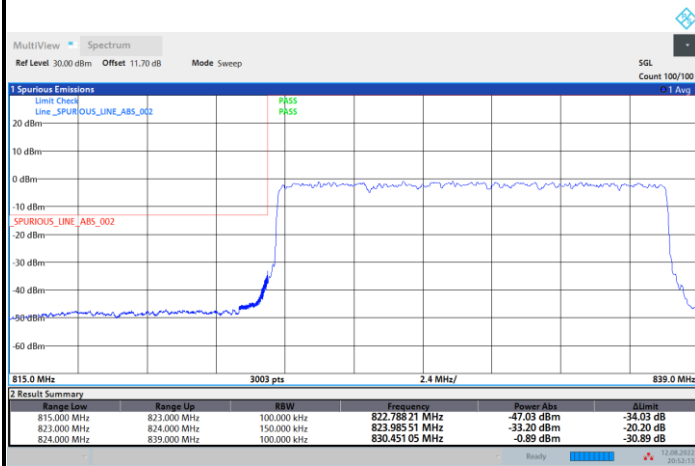
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**FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM / Full RB****Lowest Band Edge****Highest Band Edge****FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM / Full RB****Lowest Band Edge****Highest Band Edge**



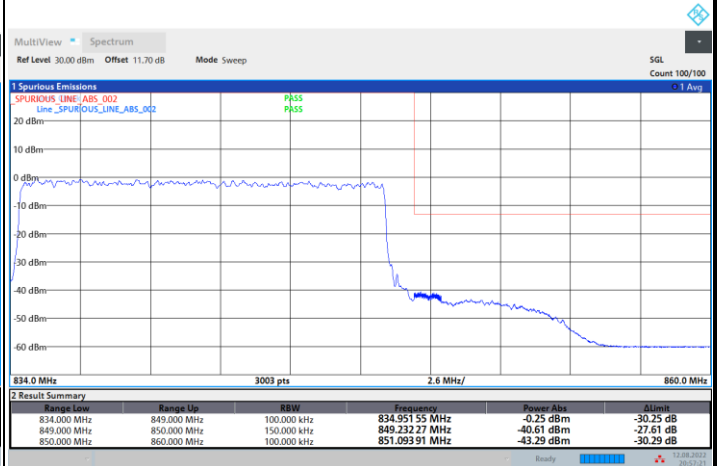
FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge



20:52:13 12.08.2022

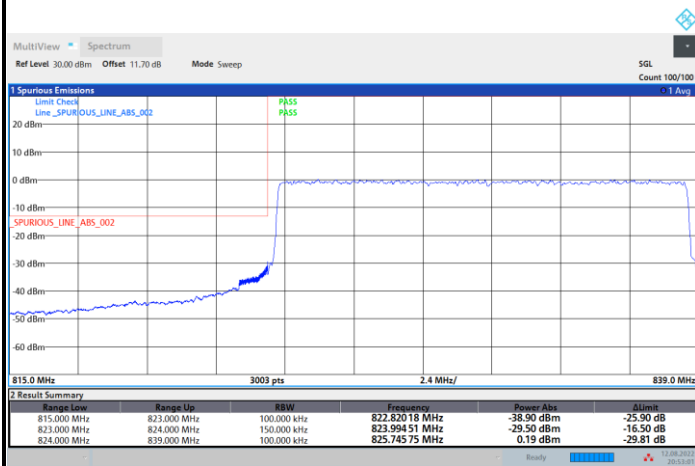
Highest Band Edge



20:52:22 12.08.2022

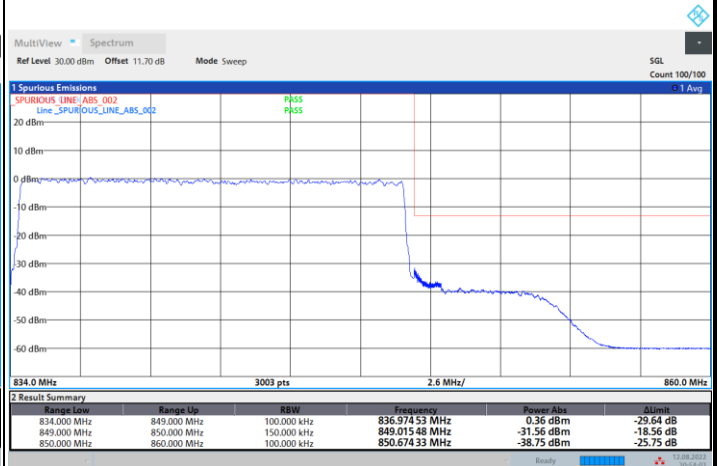
FR1 n5 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



20:53:03 12.08.2022

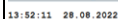
Highest Band Edge



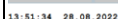
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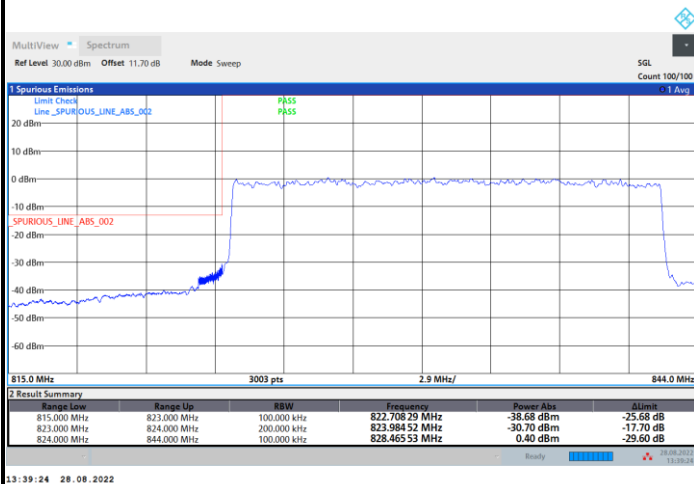
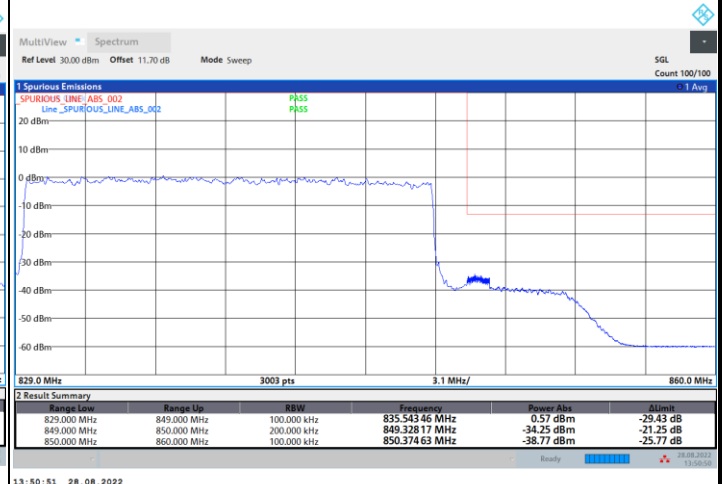
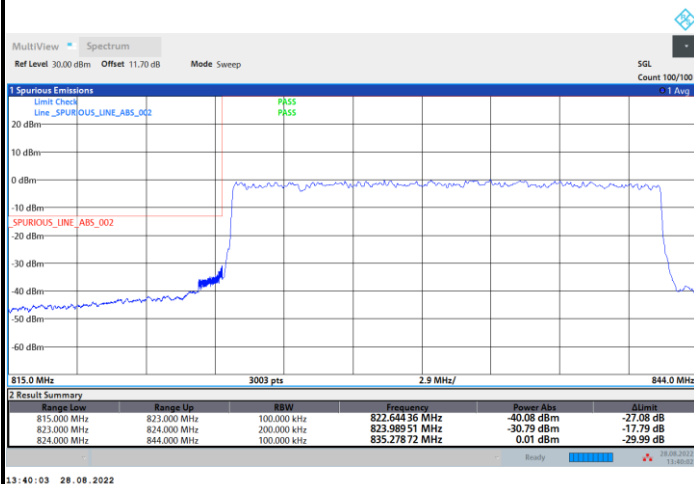
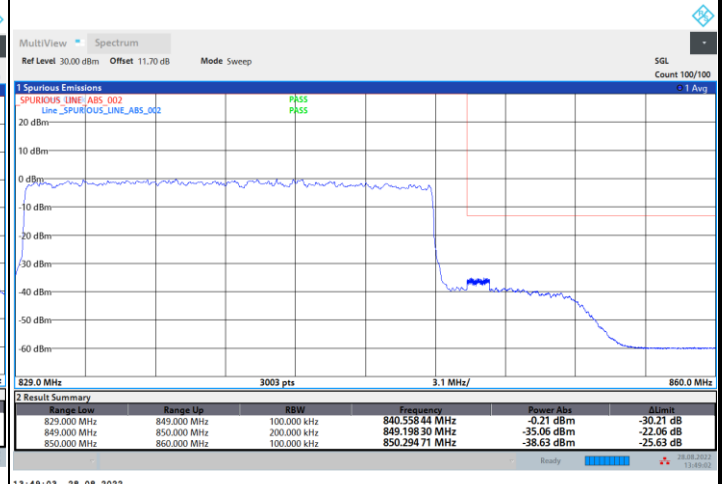


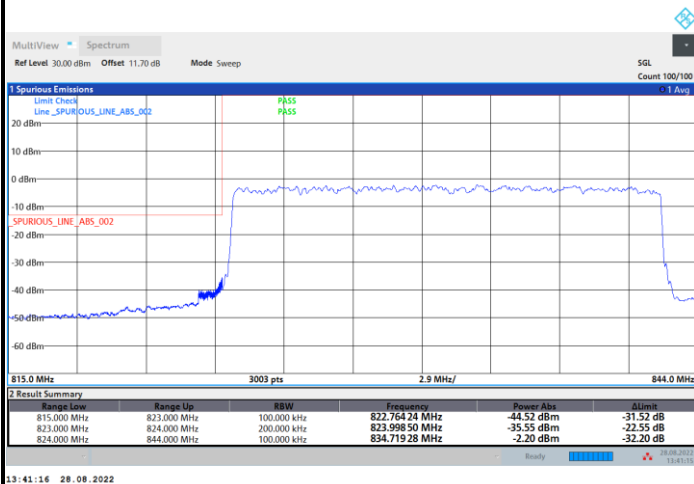
Highest Band Edge



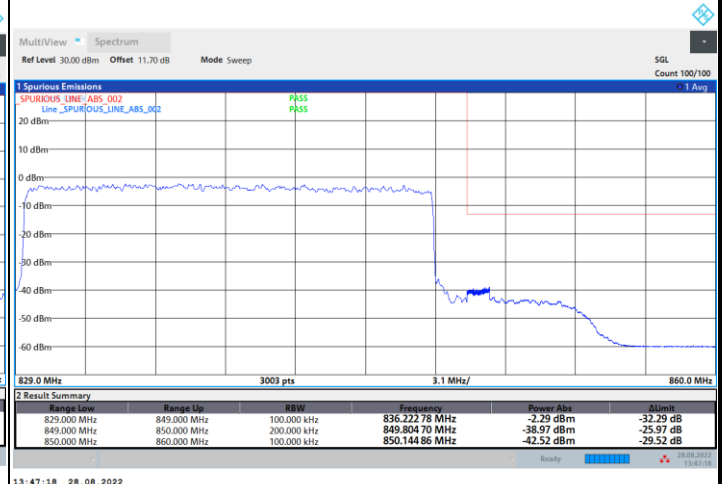
Highest Band Edge



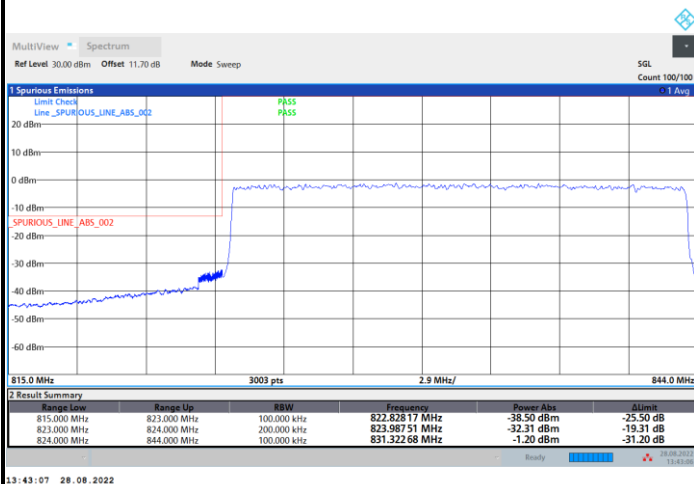
**FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM / Full RB****Lowest Band Edge****Highest Band Edge****FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM / Full RB****Lowest Band Edge****Highest Band Edge**

**FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM / Full RB****Lowest Band Edge**

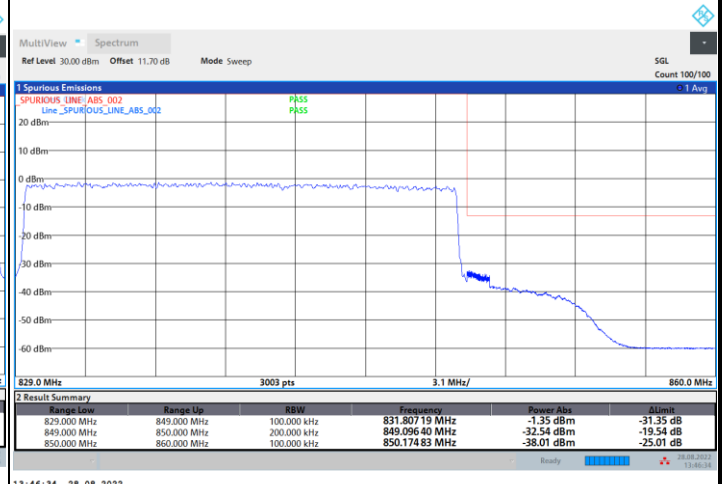
13:41:16 28.08.2022

Highest Band Edge

13:47:18 28.08.2022

FR1 n5 / 20MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

13:43:07 28.08.2022

Highest Band Edge

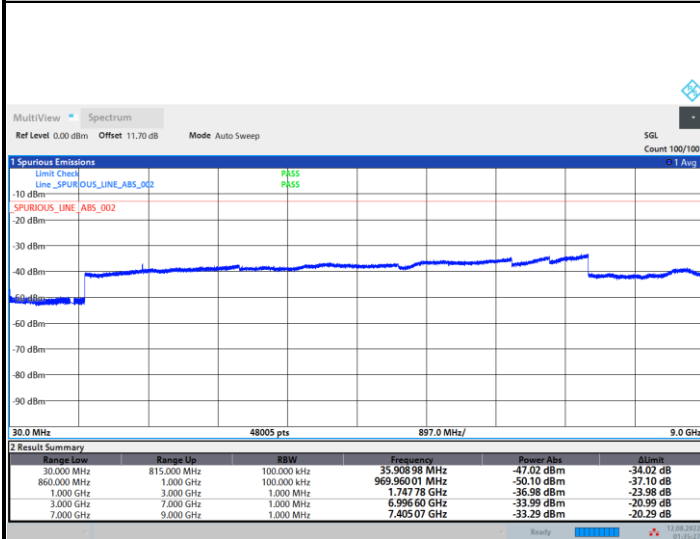
13:46:34 28.08.2022



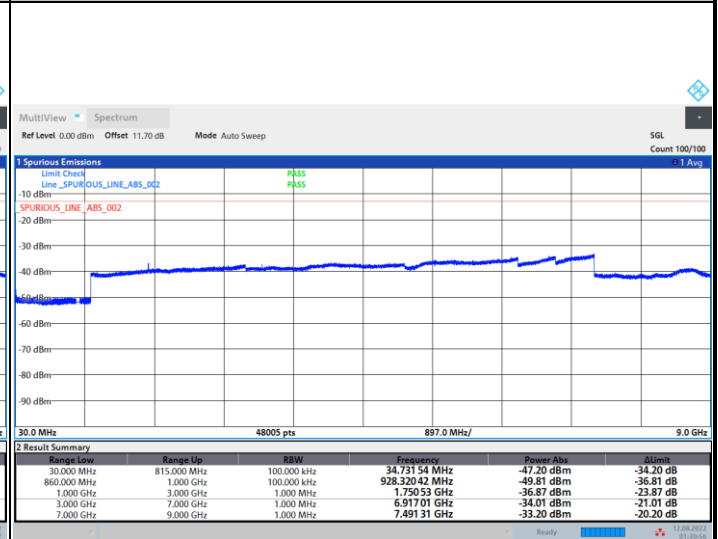
Conducted Spurious Emission

FR1 n5 / 5MHz / DFT-S OFDM / QPSK / 1RB1

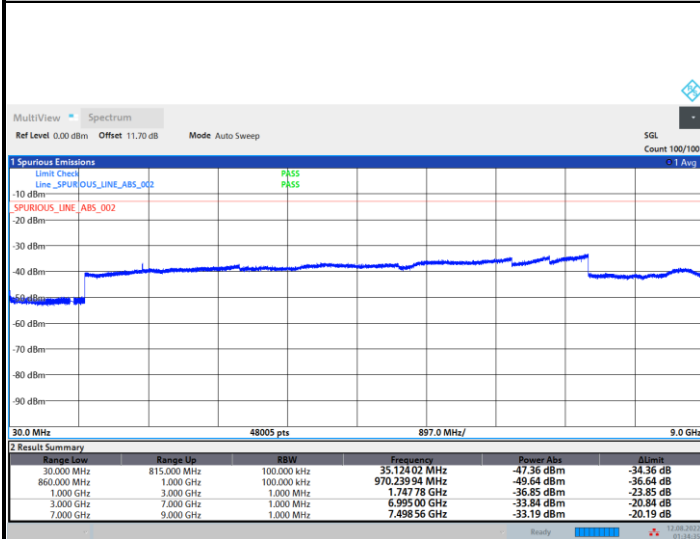
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

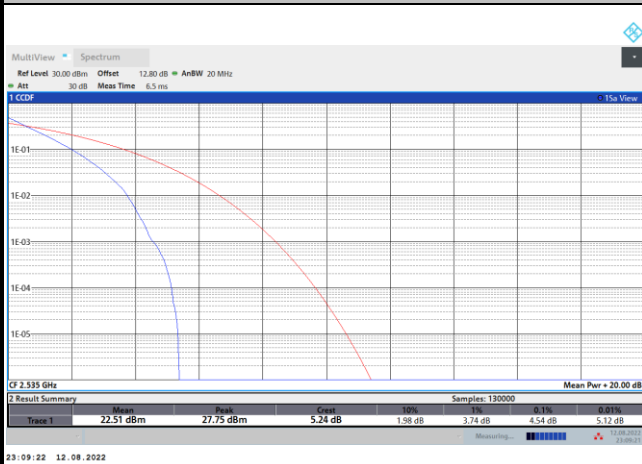
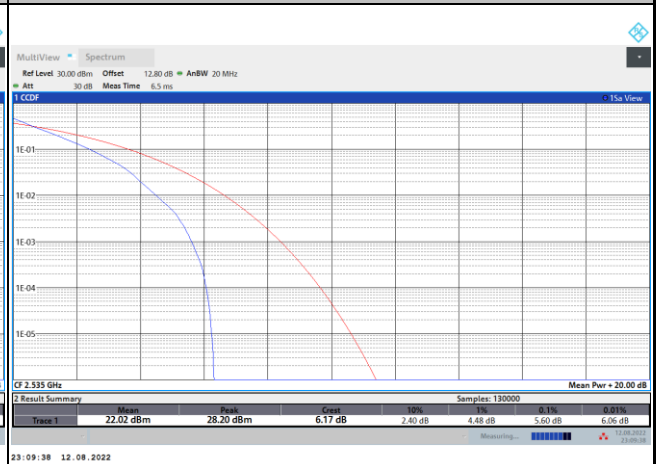
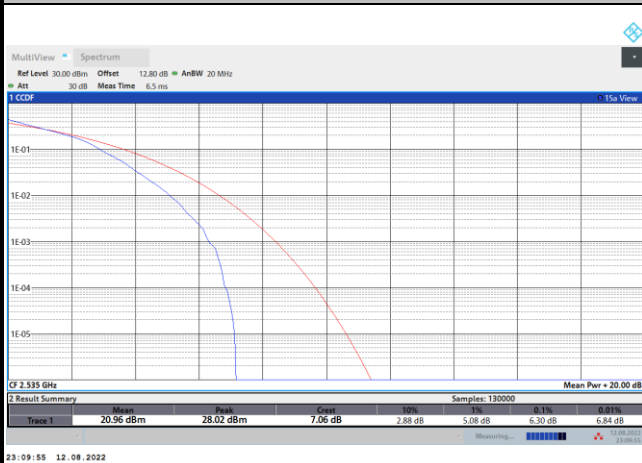
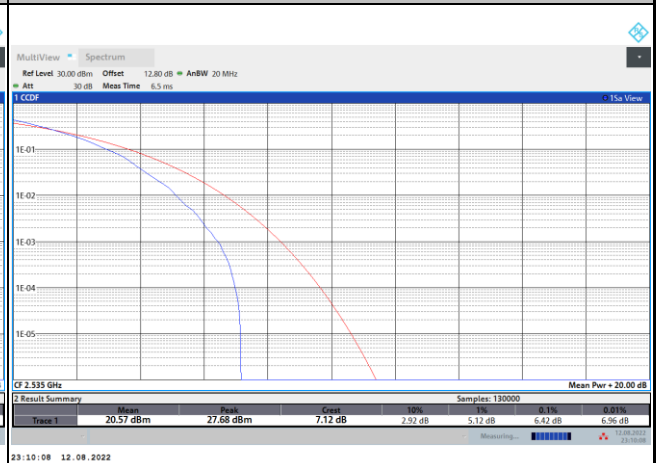
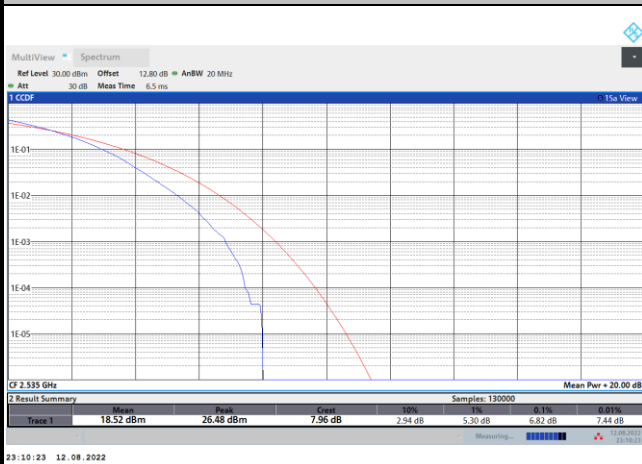
Test Conditions		FR1 n5 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0060	
30	Normal Voltage	0.0069	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0105	
-10	Normal Voltage	0.0055	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0087	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0053	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n7****Peak-to-Average Ratio**

Mode	FR1 n7 / 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	4.54	5.60	6.30	6.42	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.82				PASS

**FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB****PI/2 BPSK****QPSK****16QAM****64QAM****256QAM**

**26dB Bandwidth**

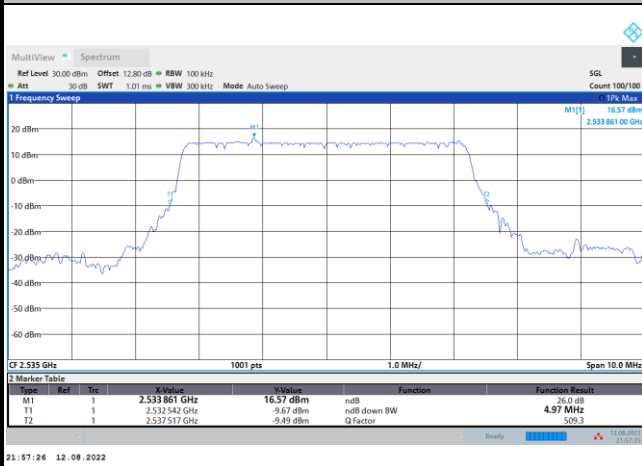
Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.97		9.53		14.30		18.78	

Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.00	5.07	10.07	9.83	15.05	15.02	20.02	19.94
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.04	5.14	10.09	9.95	15.20	15.05	19.90	20.10



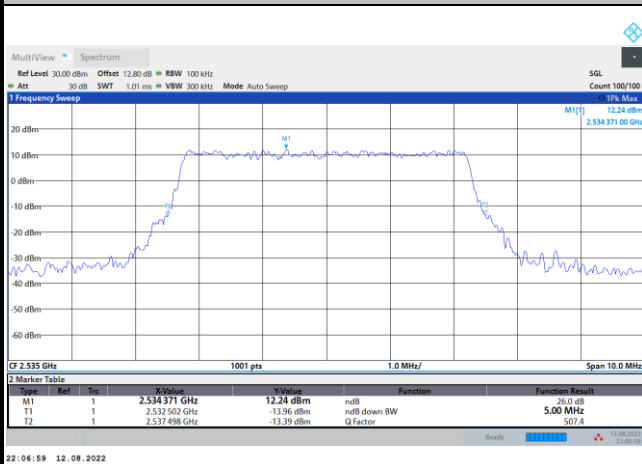
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

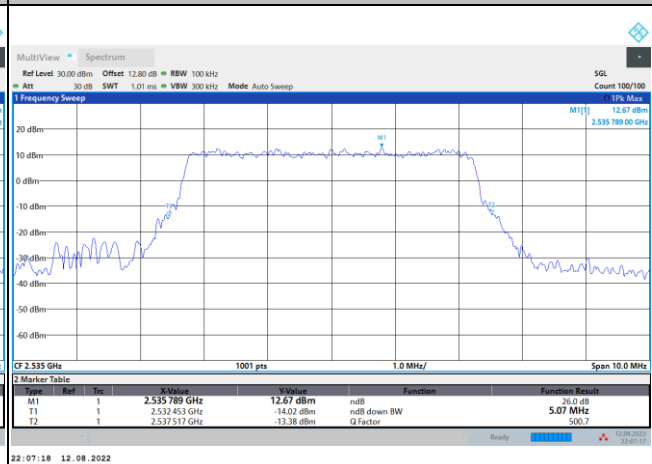


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

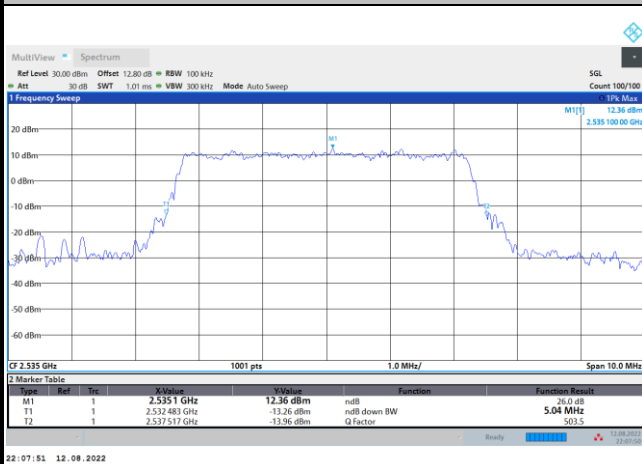
QPSK



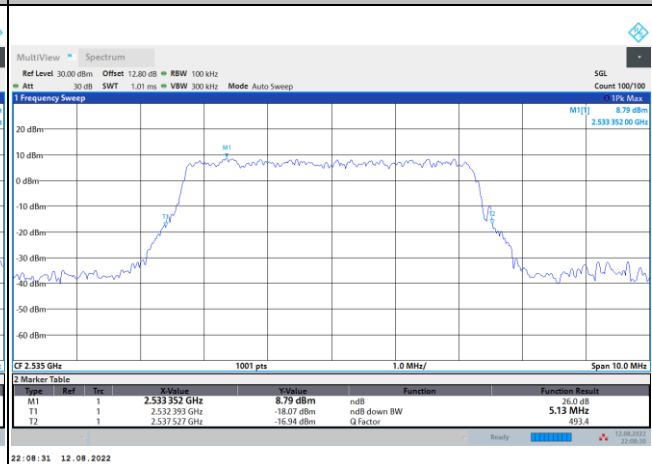
16QAM



64QAM



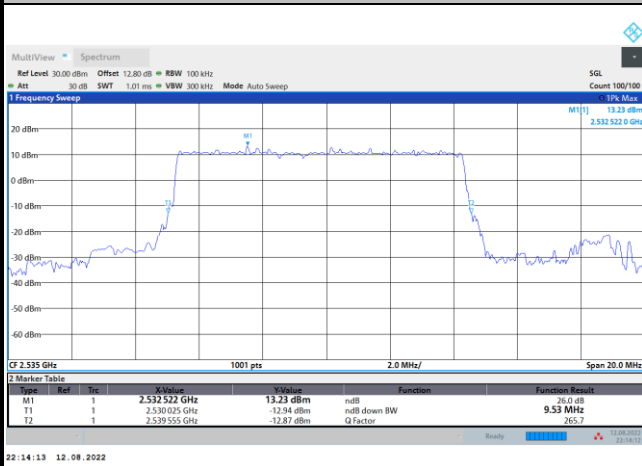
256QAM





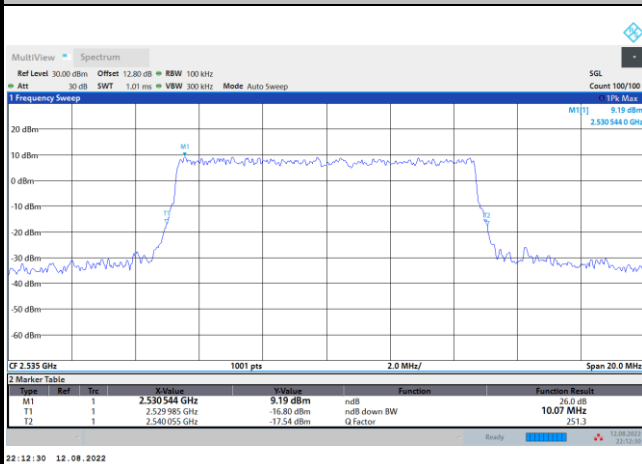
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

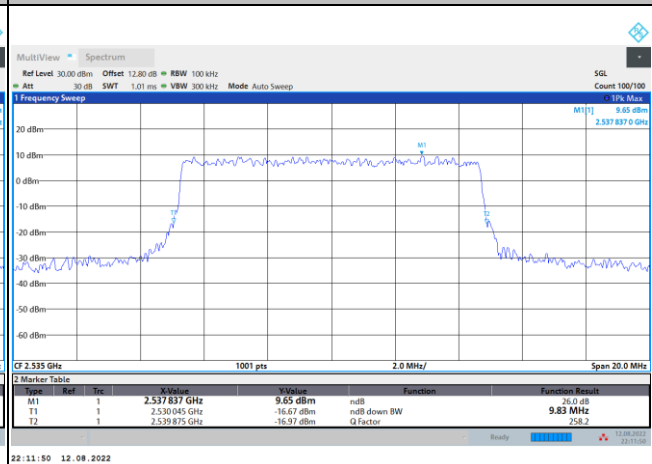


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

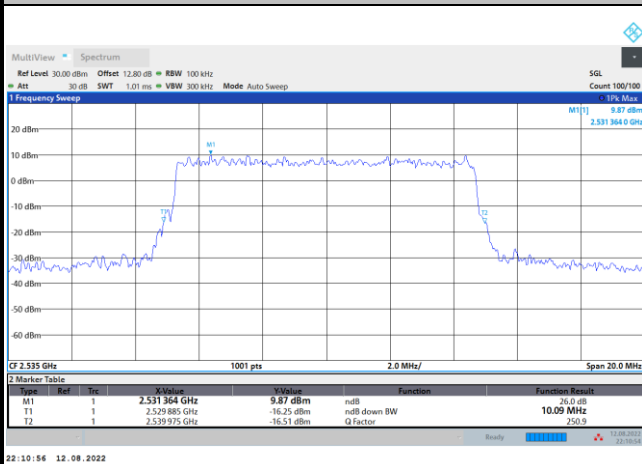
QPSK



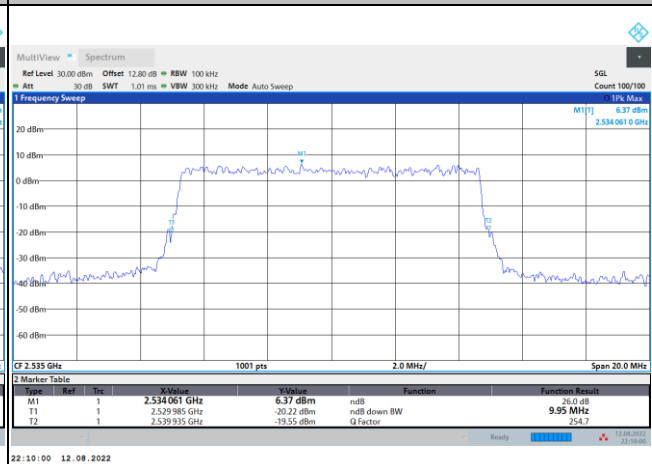
16QAM



64QAM



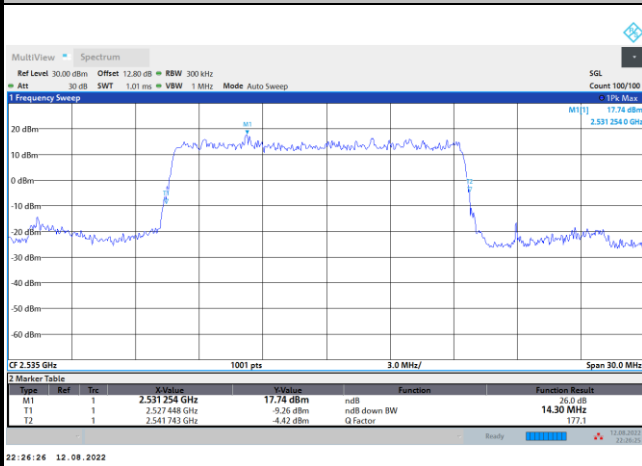
256QAM





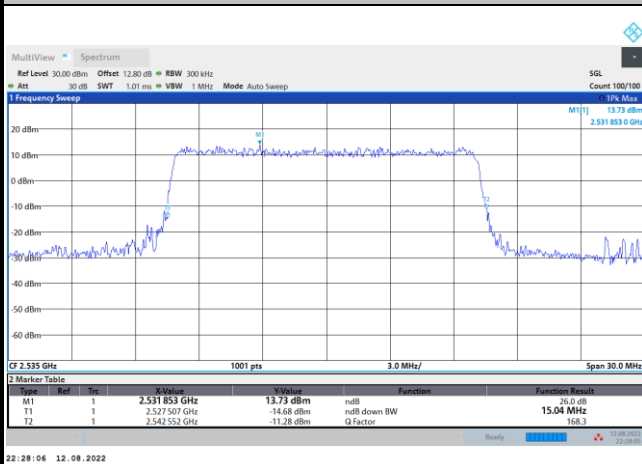
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

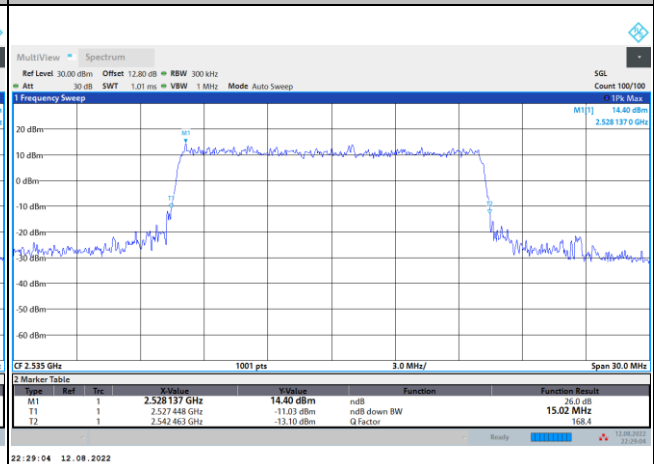


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

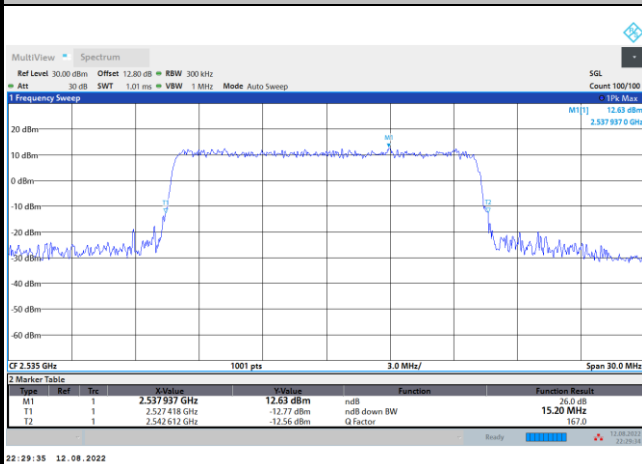
QPSK



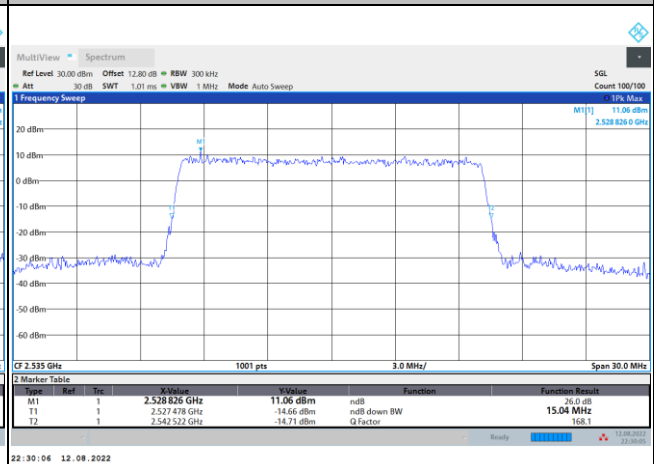
16QAM



64QAM



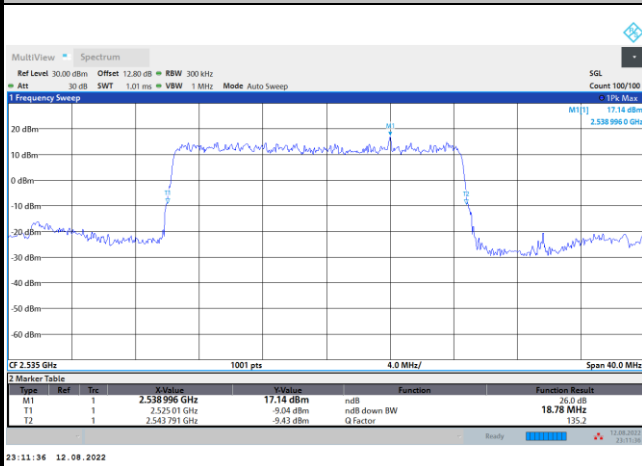
256QAM





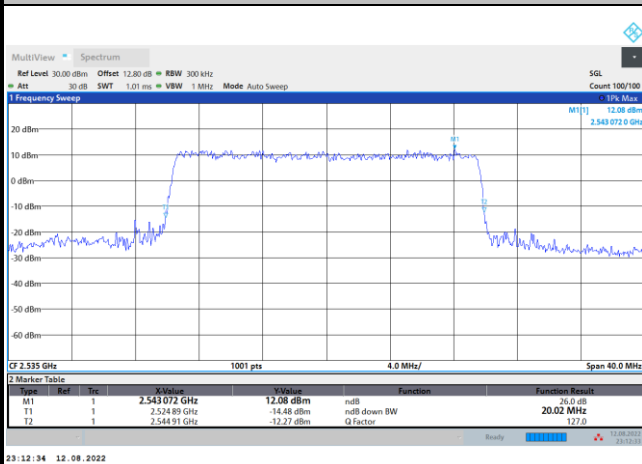
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

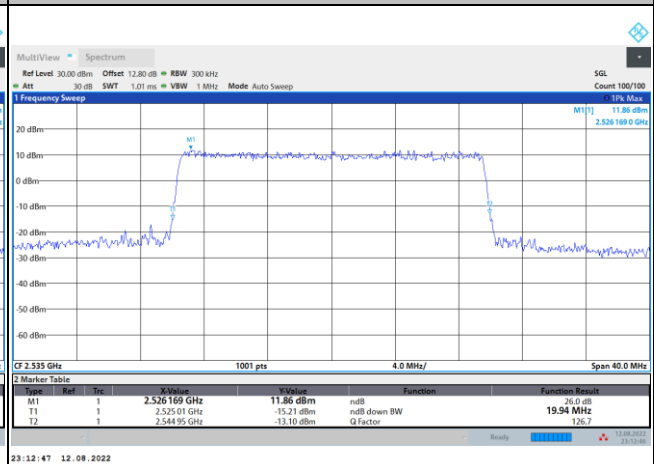


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

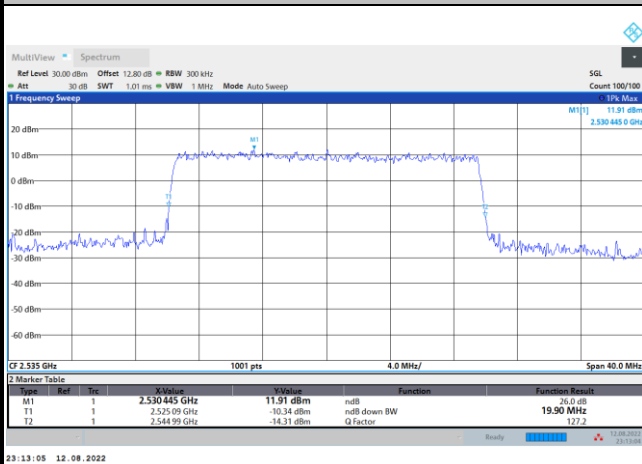
QPSK



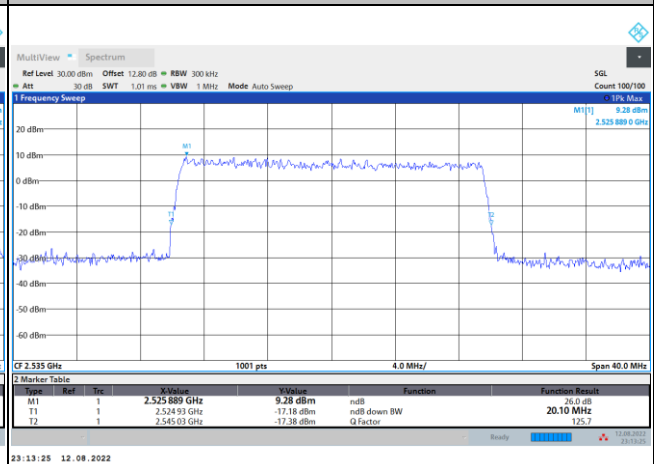
16QAM



64QAM



256QAM



**Occupied Bandwidth**

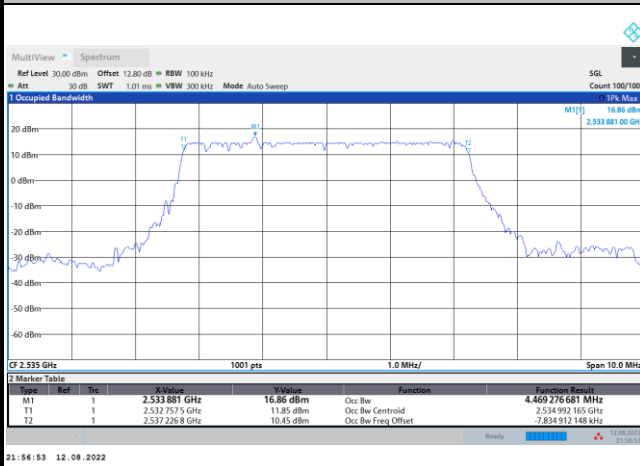
Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.46		8.91		13.49		17.92	

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.48	9.28	9.27	14.17	14.13	18.96	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.49	4.48	9.29	9.31	14.19	14.15	18.94	18.97



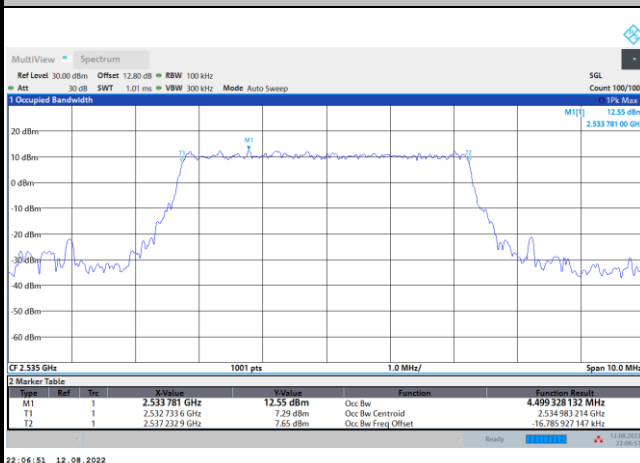
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

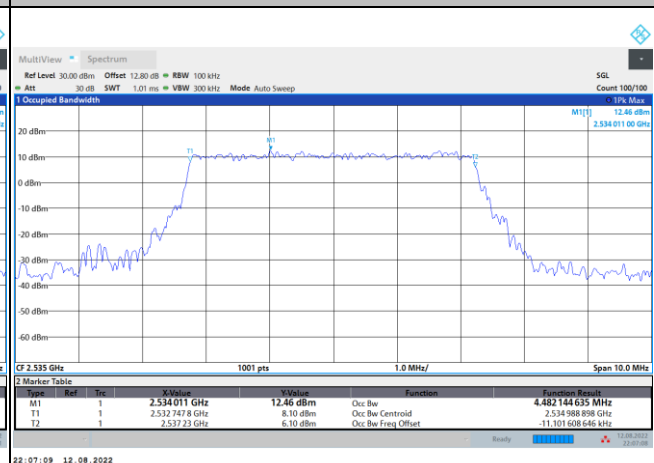


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

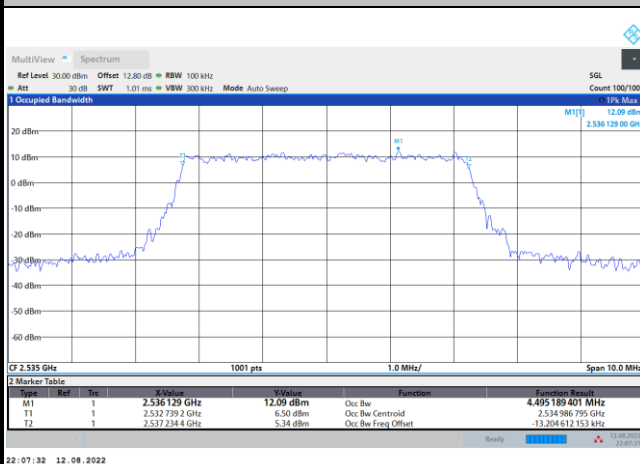
QPSK



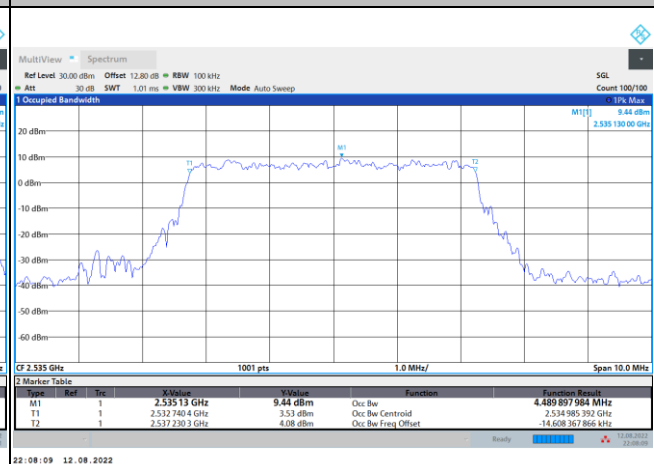
16QAM



64QAM

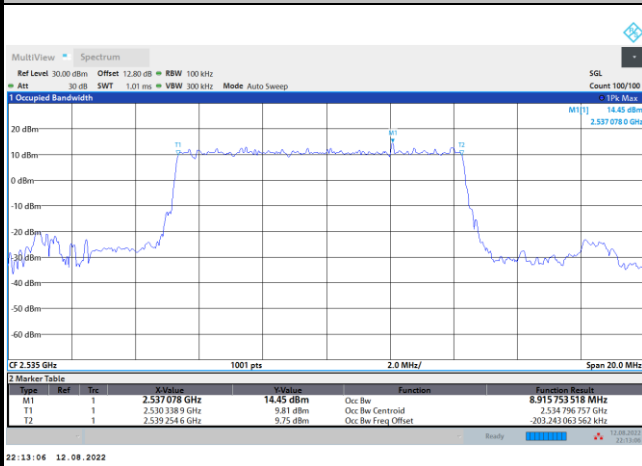


256QAM



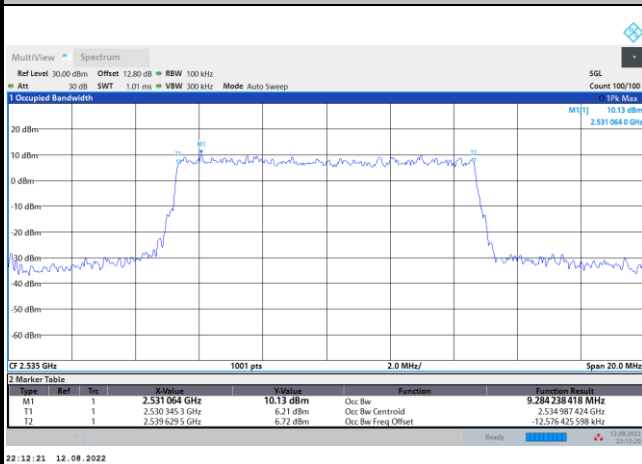
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

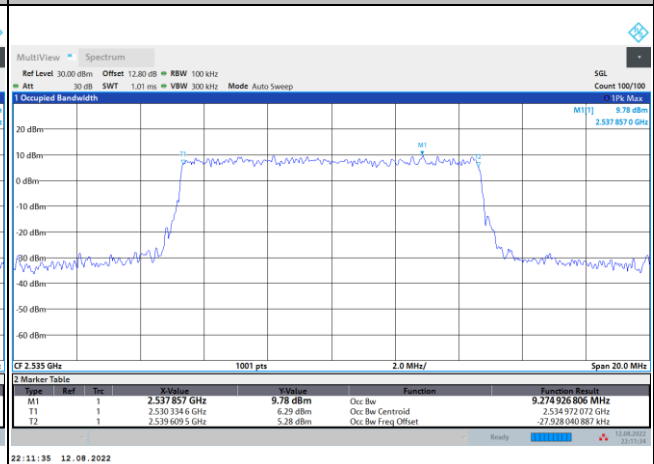


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

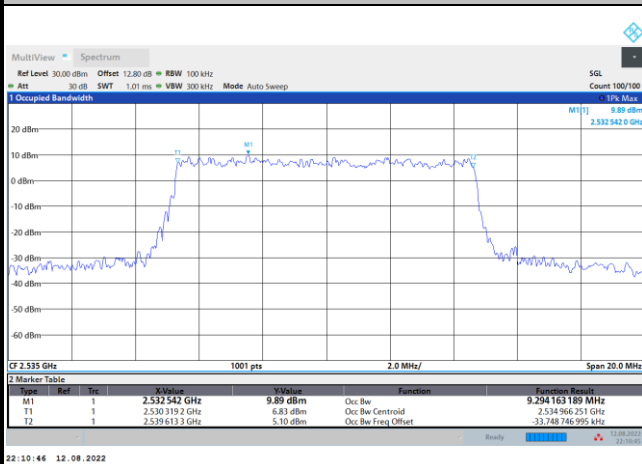
QPSK



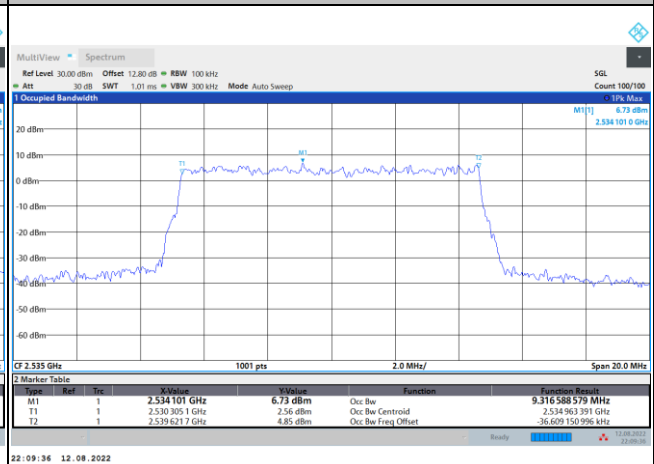
16QAM



64QAM



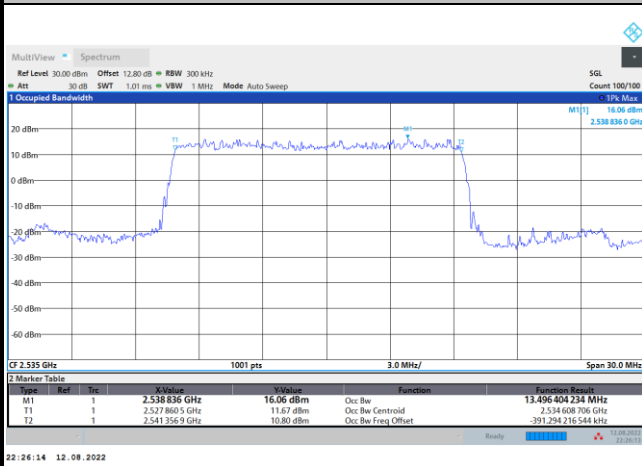
256QAM





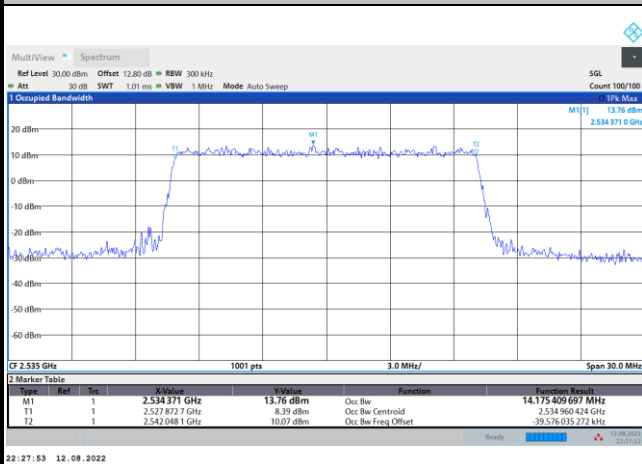
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

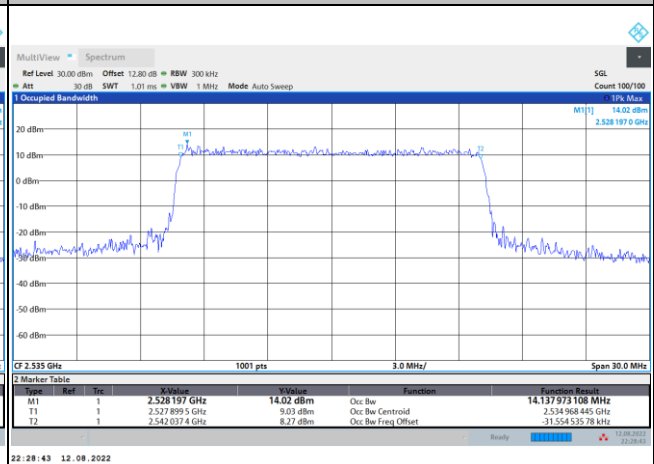


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

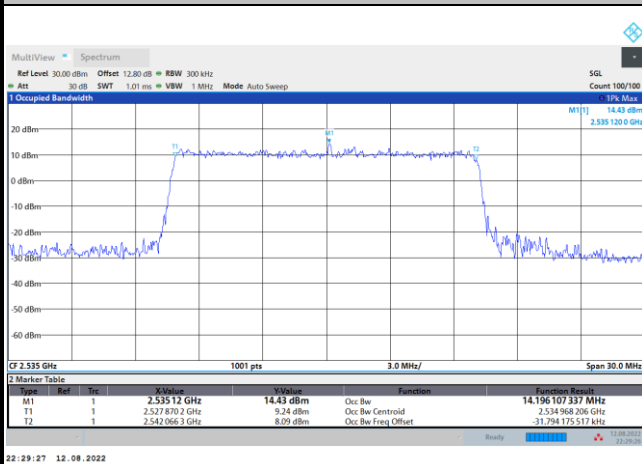
QPSK



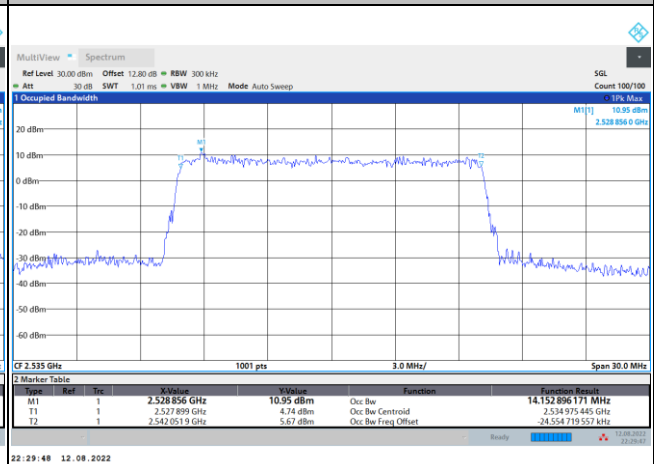
16QAM



64QAM

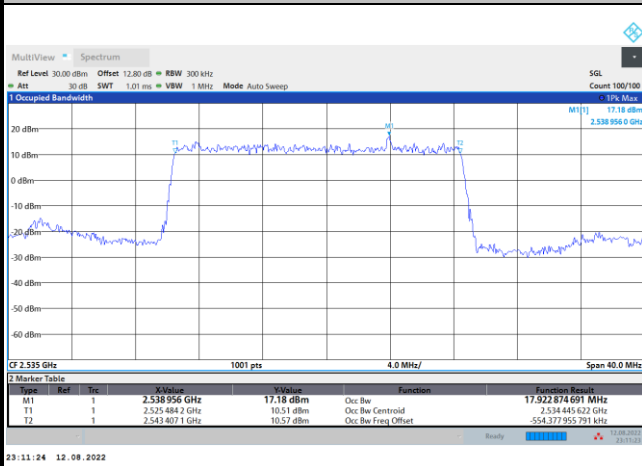


256QAM



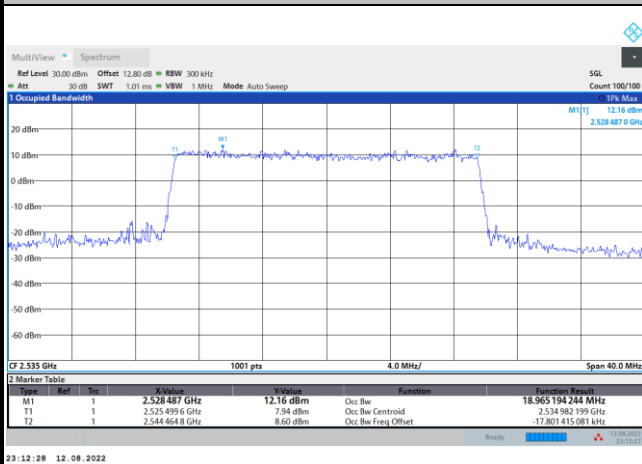
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

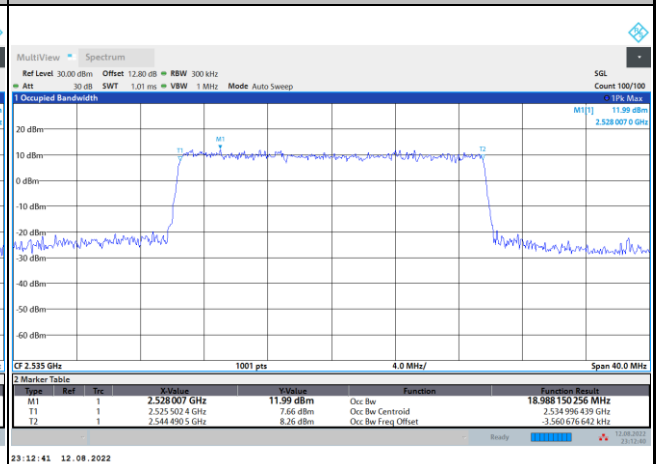


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

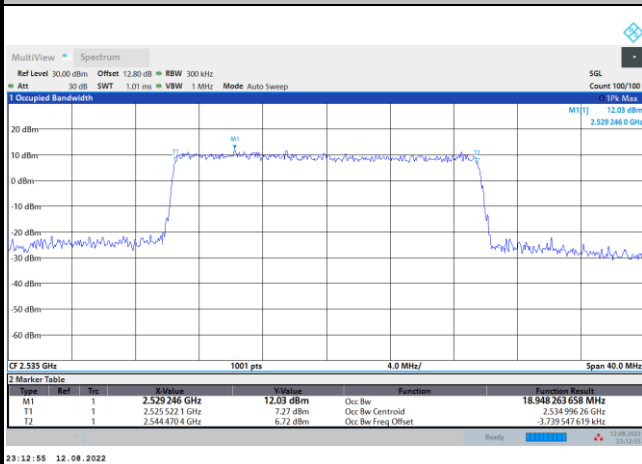
QPSK



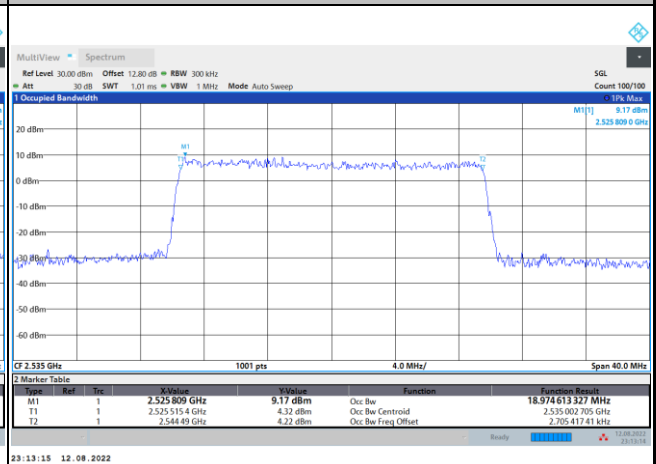
16QAM



64QAM



256QAM



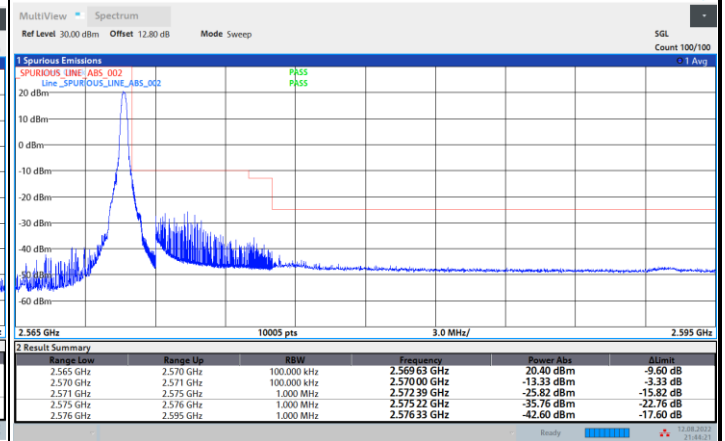
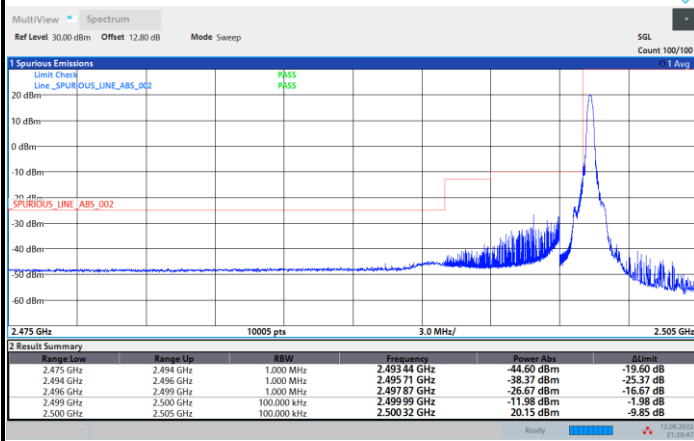


Conducted Band Edge

FR1 n7 / 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

