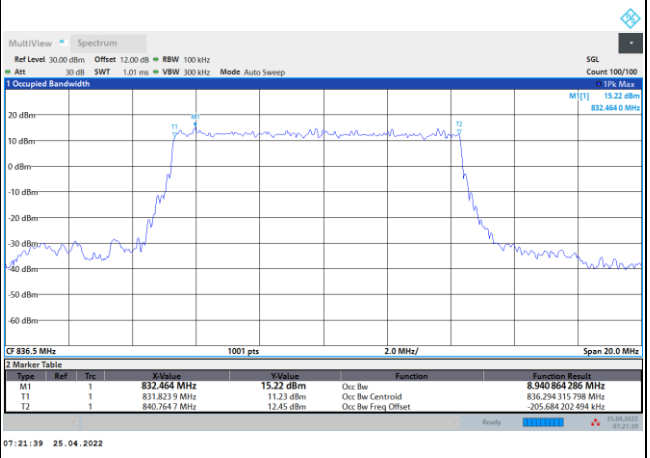
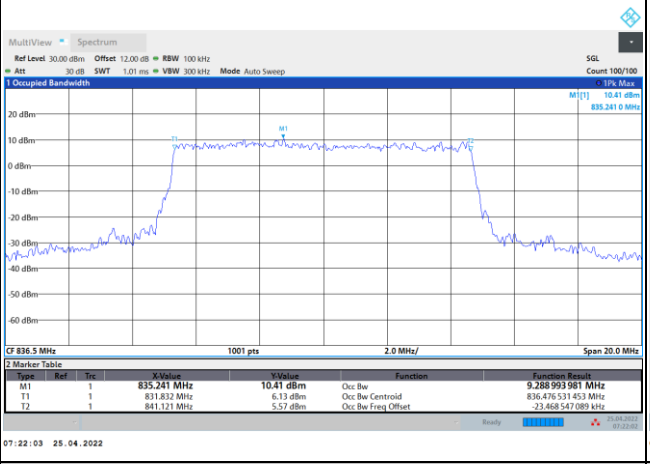
FR1 n5 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

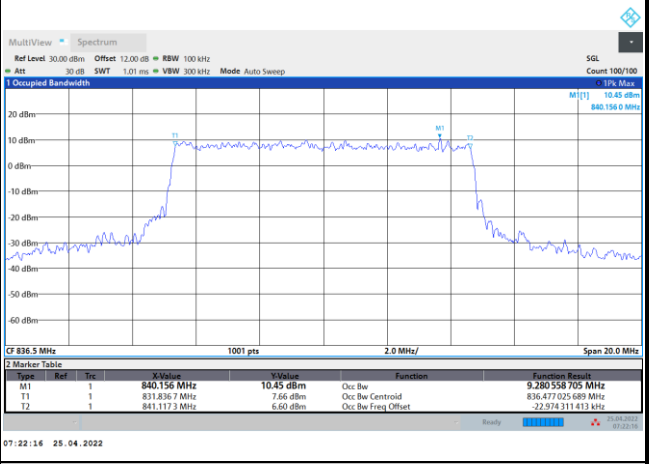


FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

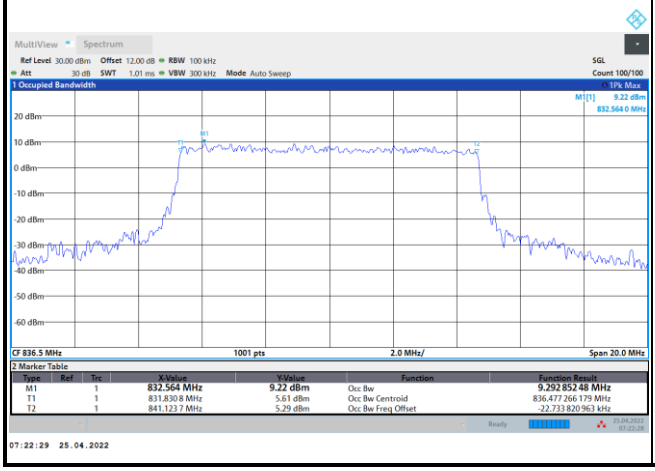
QPSK



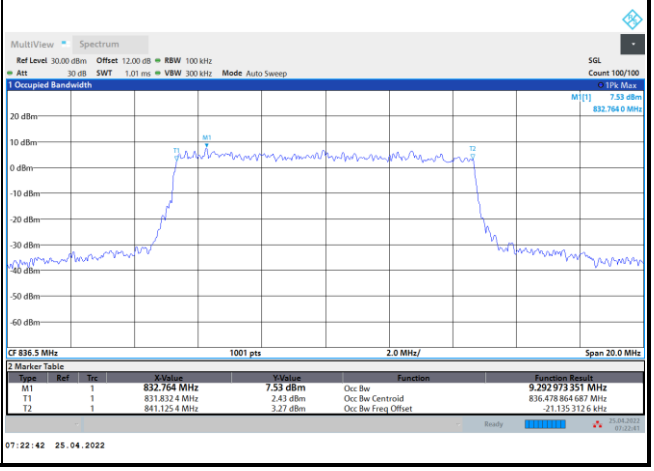
16QAM



64QAM

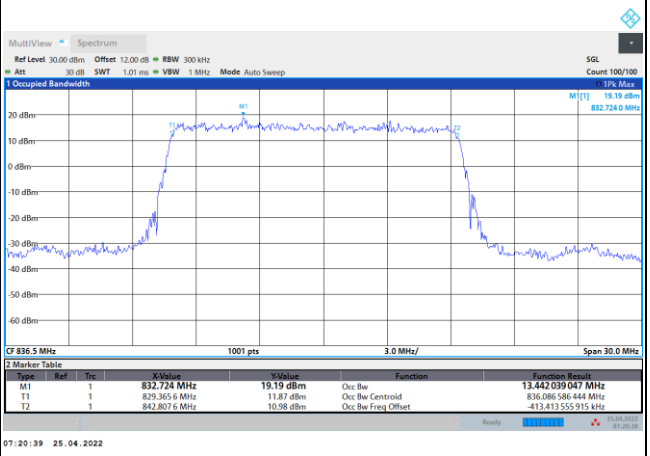


256QAM



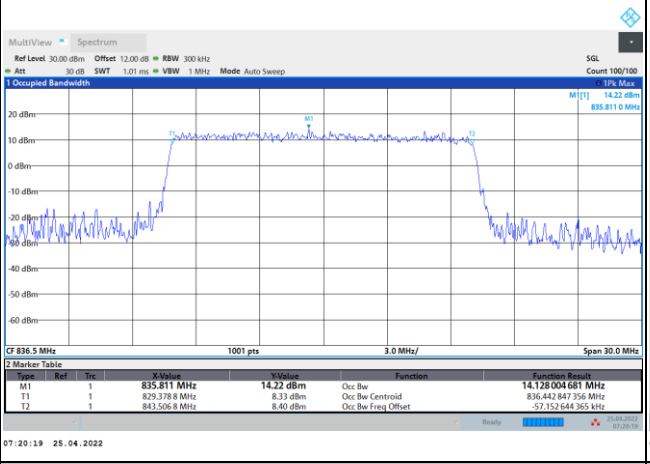
FR1 n5 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

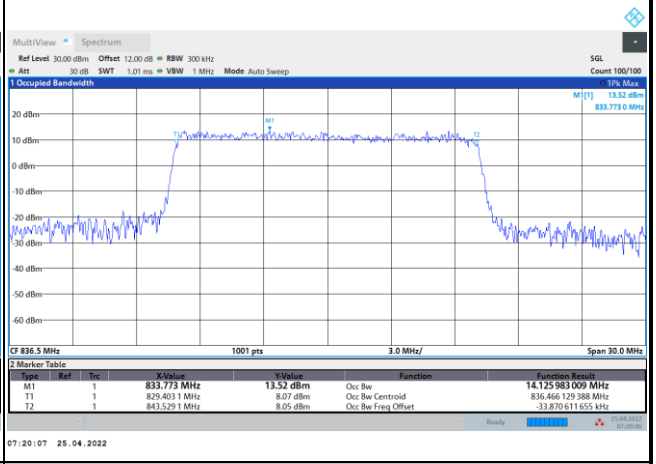


FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK

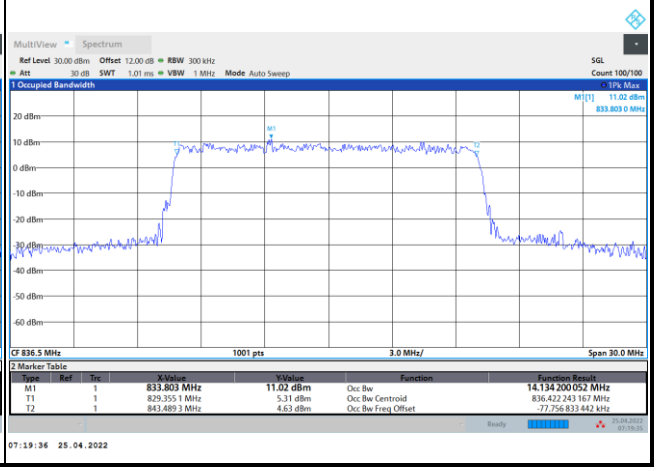


16QAM



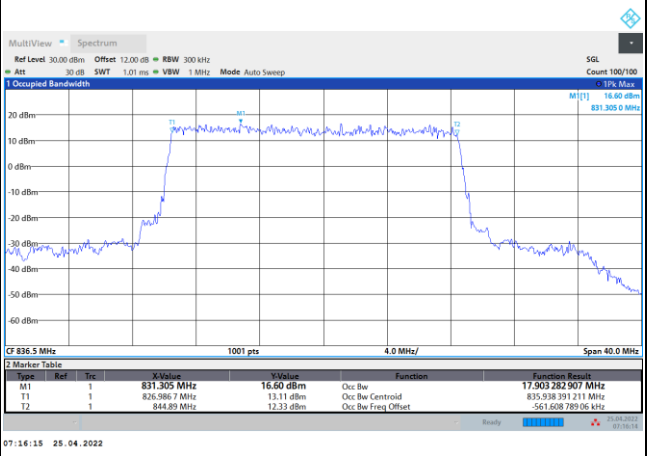
64QAM

256QAM



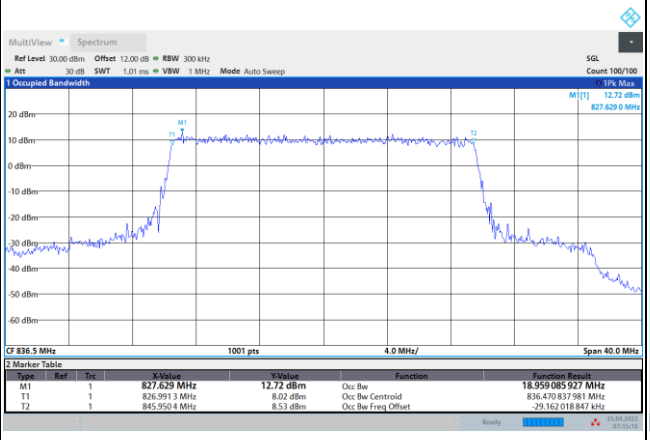
FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

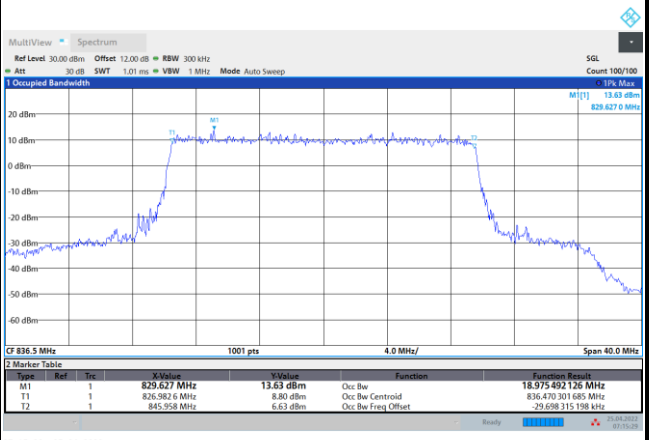


FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

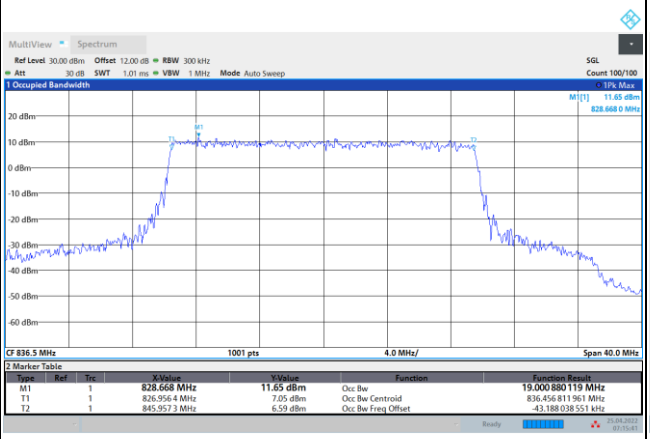
QPSK



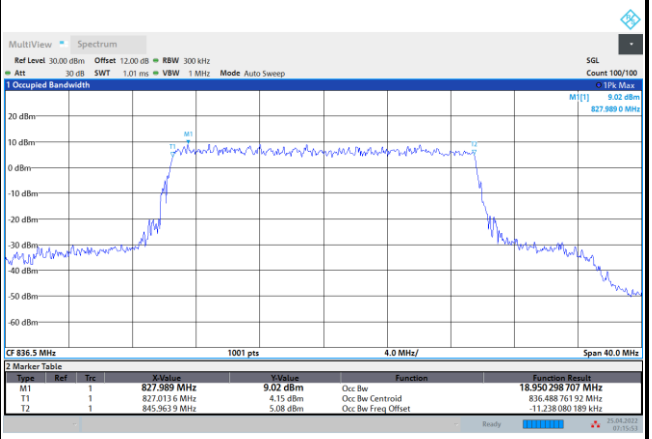
16QAM



64QAM



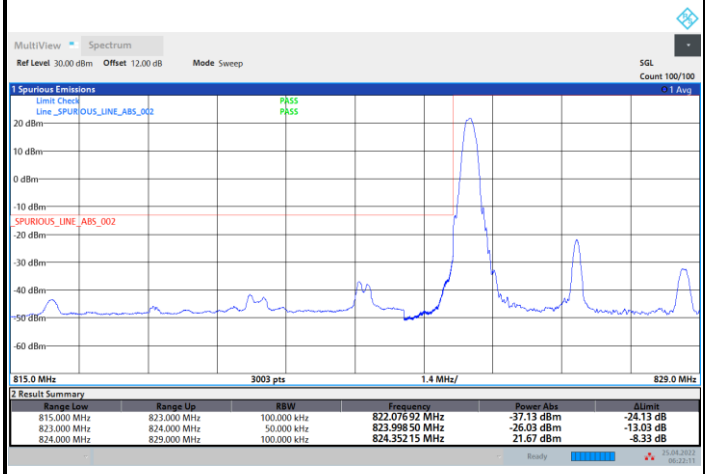
256QAM



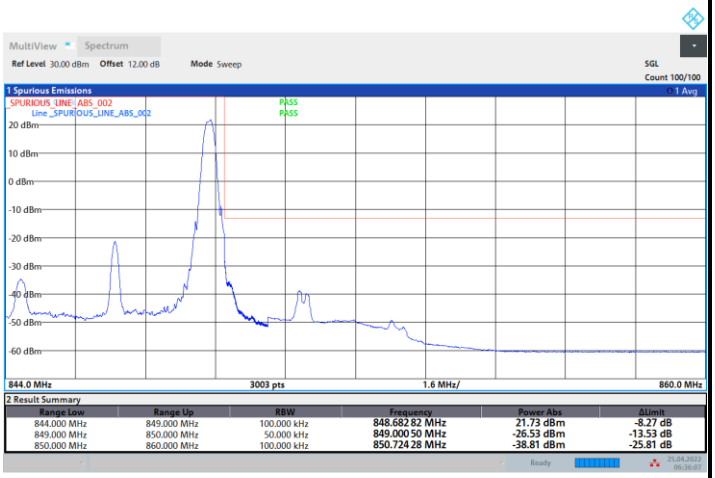
Conducted Band Edge

FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

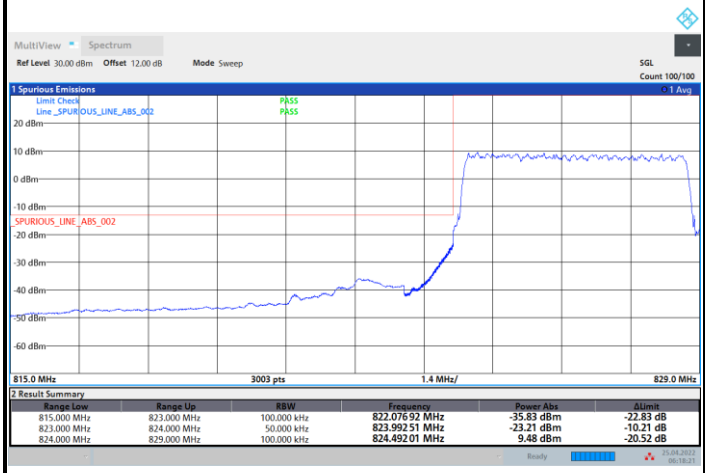
Lowest Band Edge / 1RB0



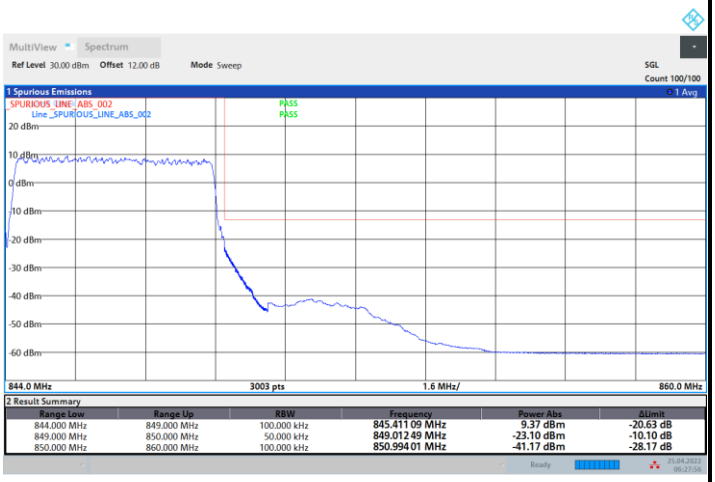
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

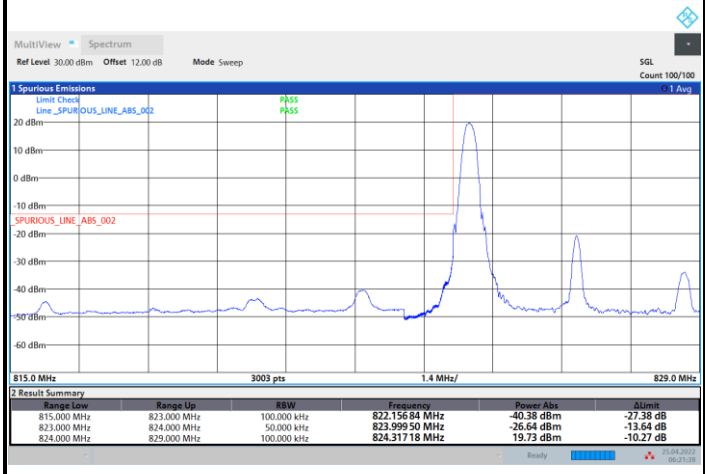


Highest Band Edge / Full RB

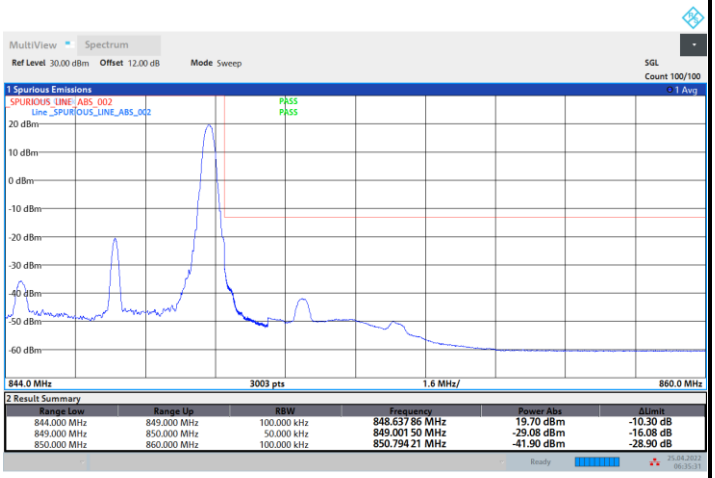


FR1 n5 / 5MHz / DFT-S OFDM / QPSK

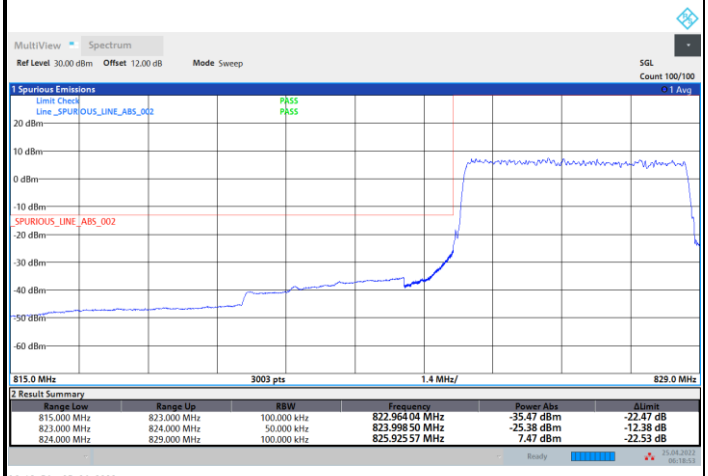
Lowest Band Edge / 1RB0



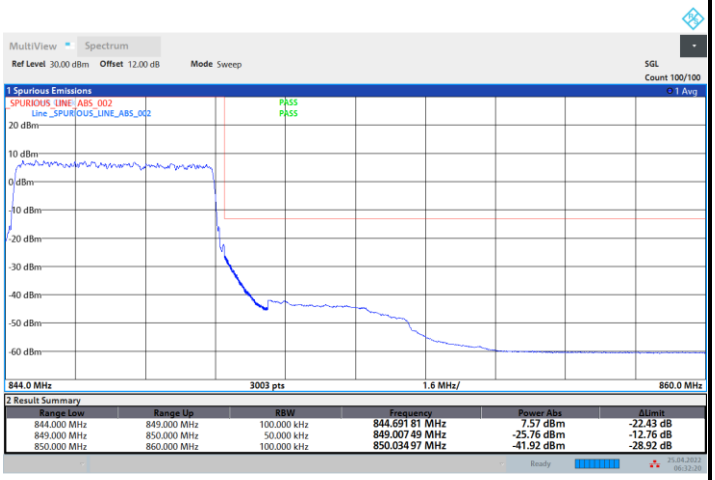
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

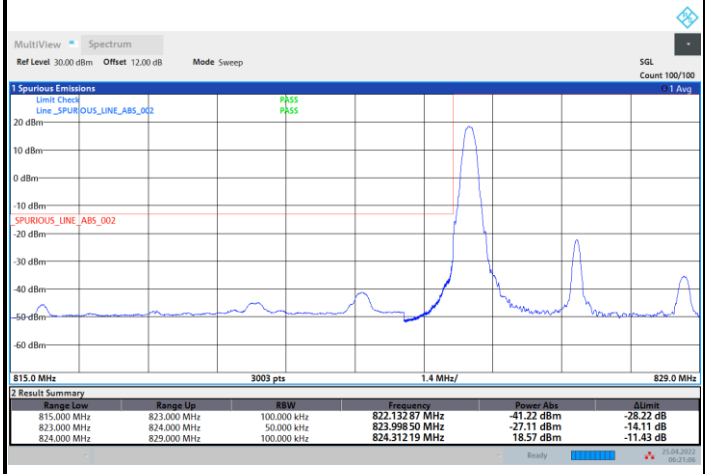


Highest Band Edge / Full RB

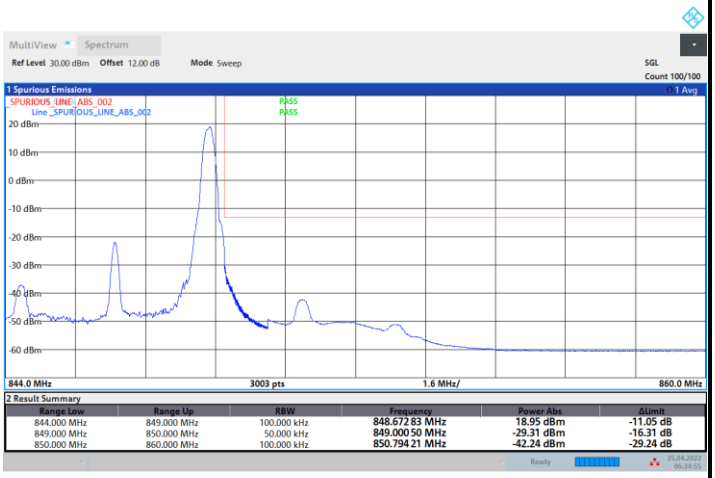


FR1 n5 / 5MHz / DFT-S OFDM / 16QAM

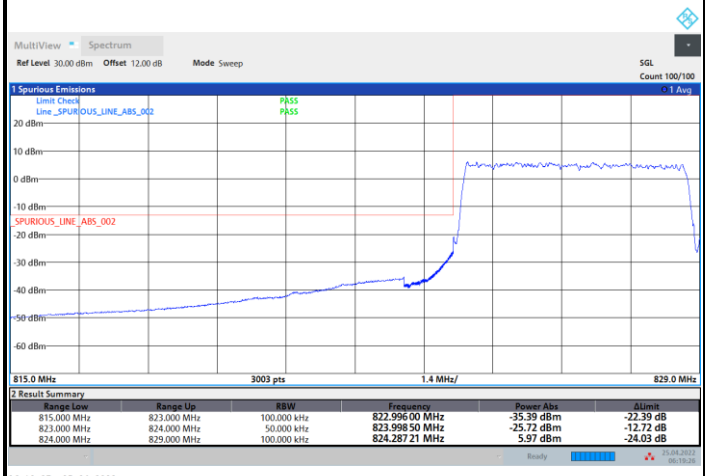
Lowest Band Edge / 1RB0



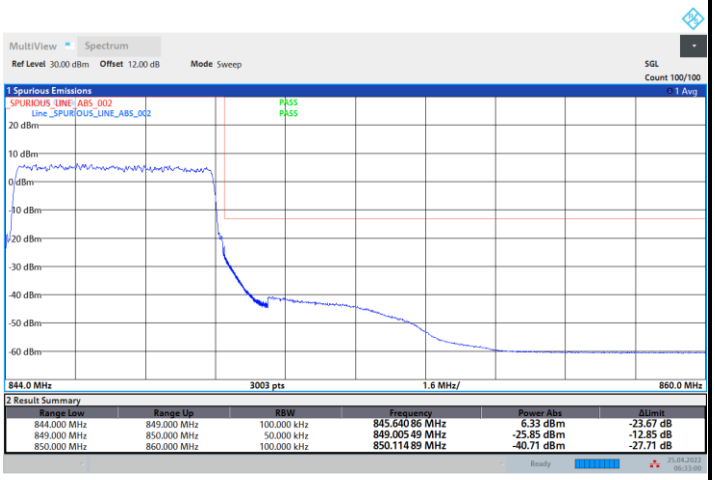
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

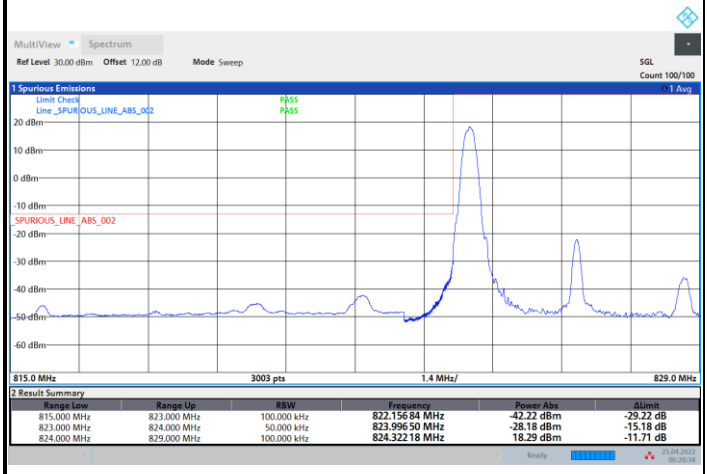


Highest Band Edge / Full RB

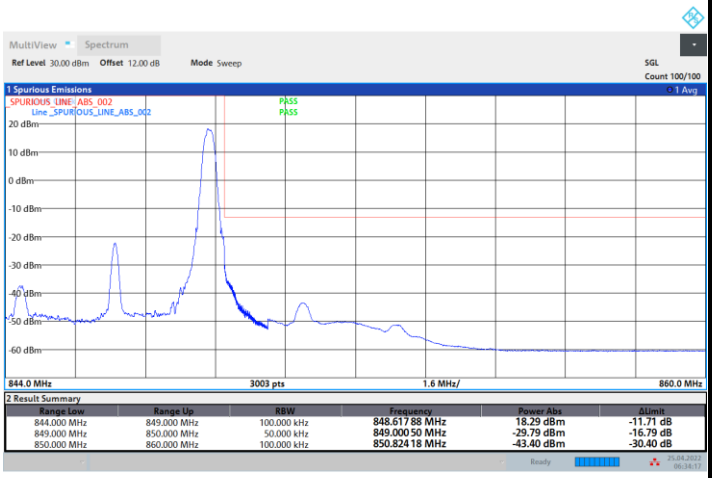


FR1 n5 / 5MHz / DFT-S OFDM / 64QAM

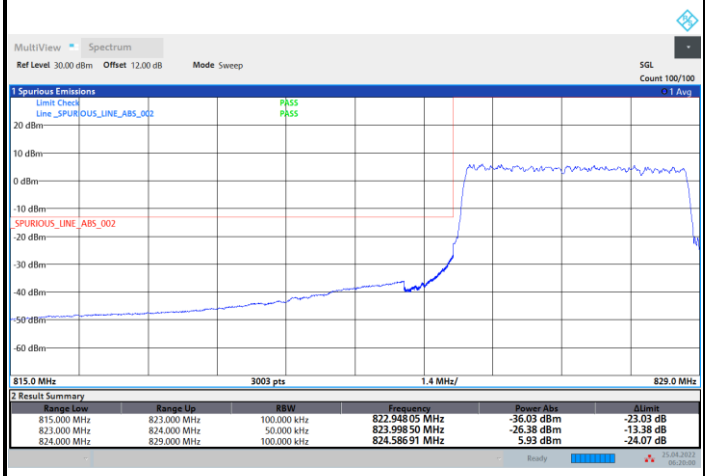
Lowest Band Edge / 1RB0



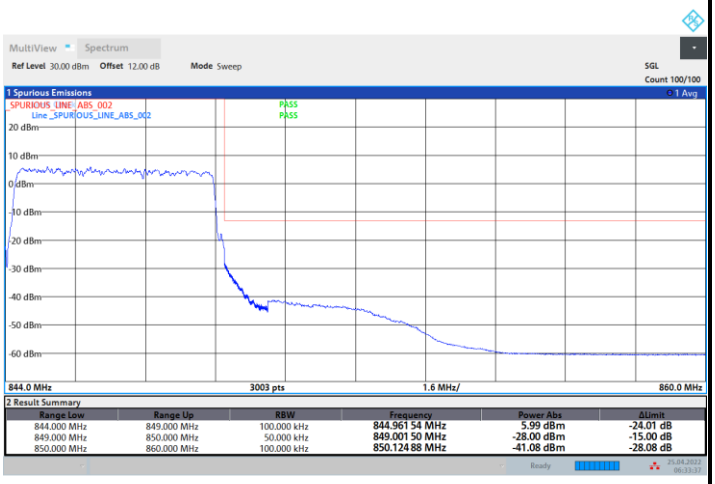
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

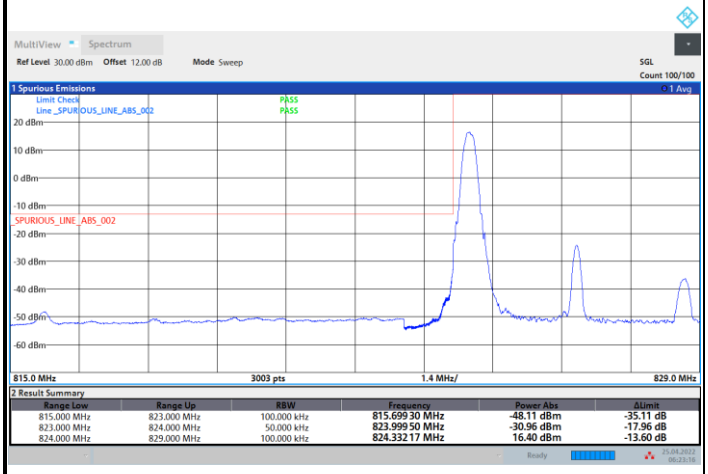


Highest Band Edge / Full RB

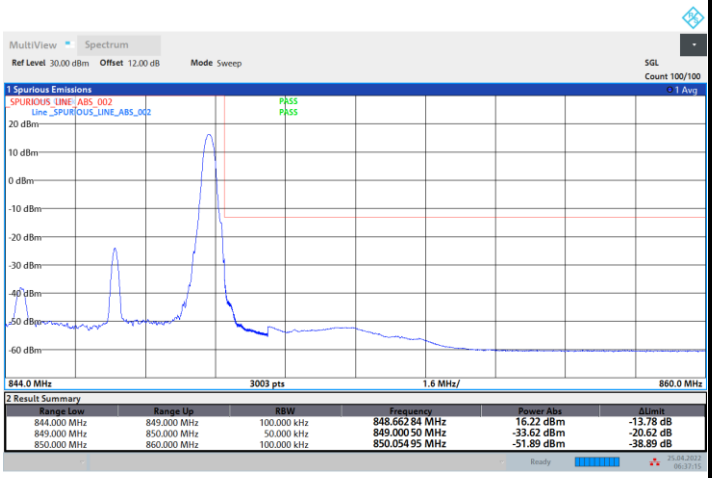


FR1 n5 / 5MHz / DFT-S OFDM / 256QAM

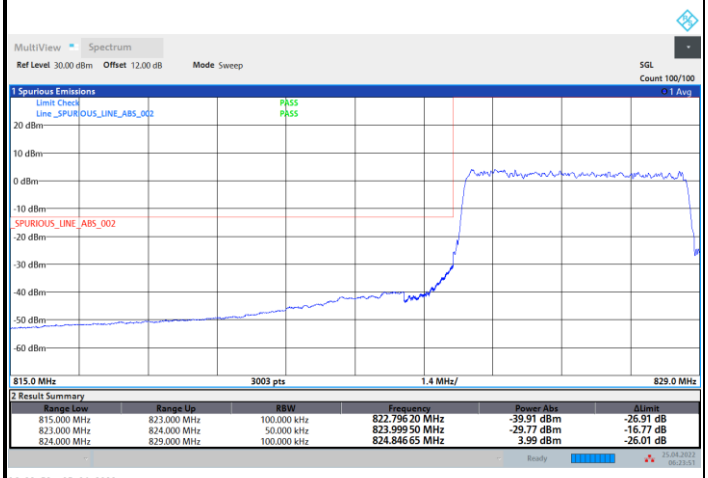
Lowest Band Edge / 1RB0



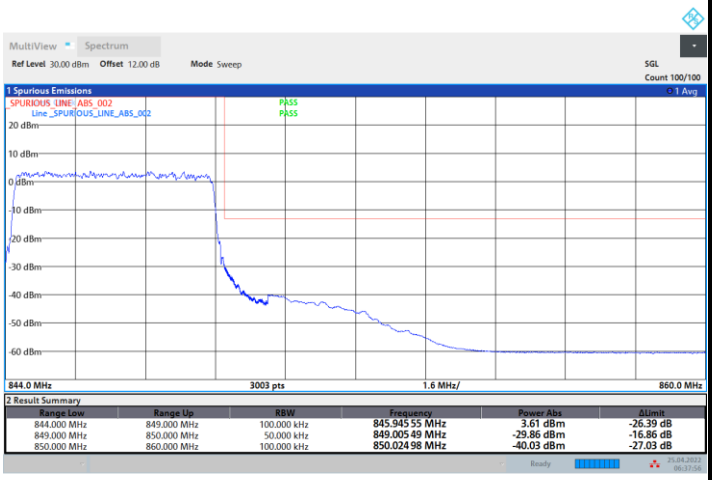
Highest Band Edge / 1RBmax

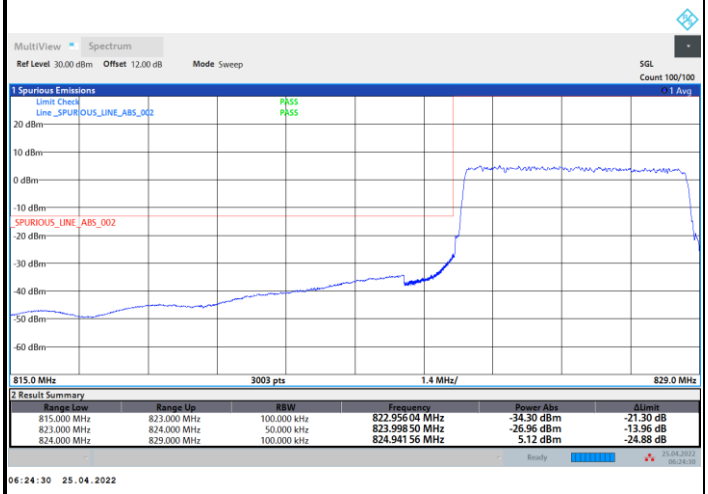
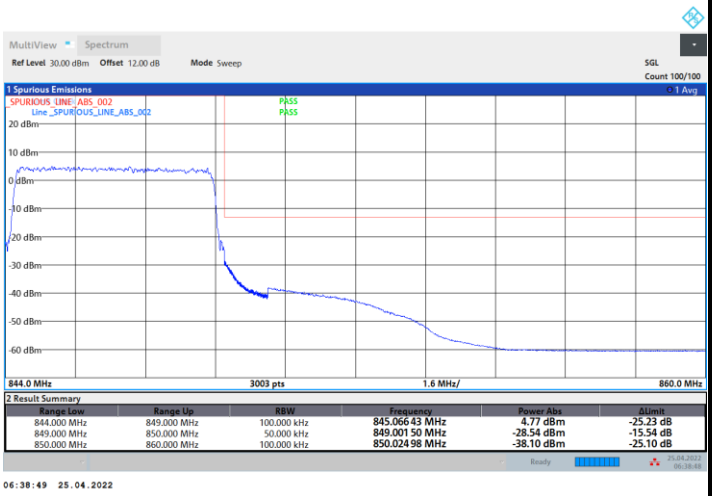


Lowest Band Edge / Full RB



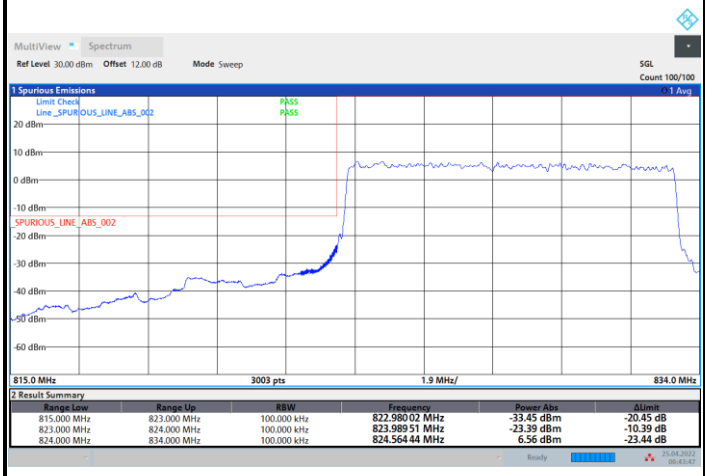
Highest Band Edge / Full RB



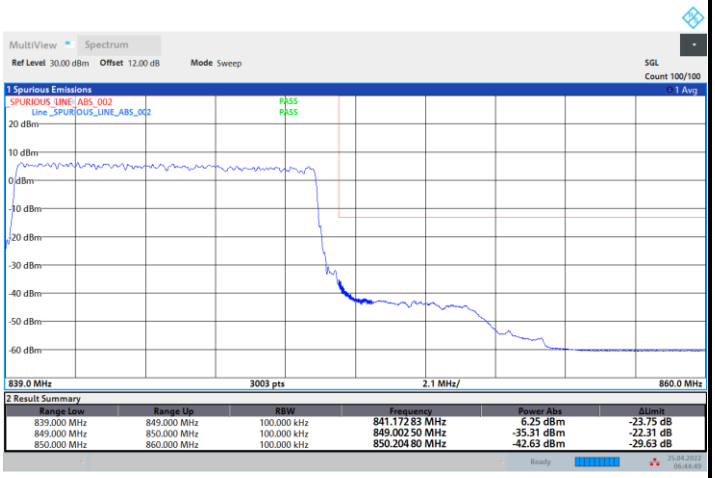
FR1 n5 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

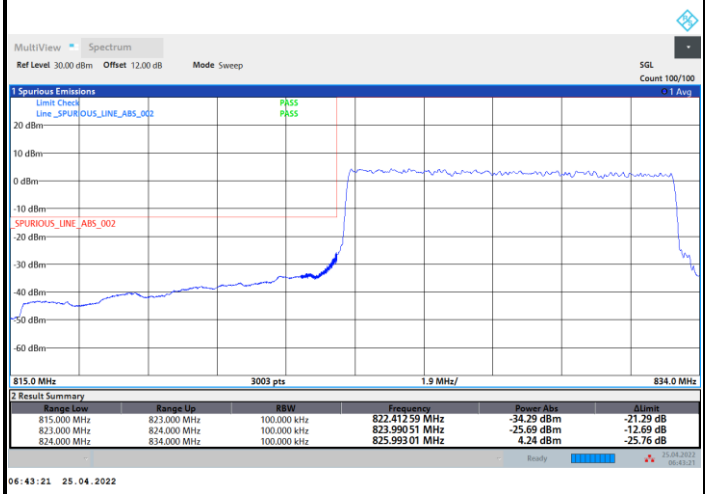


Highest Band Edge

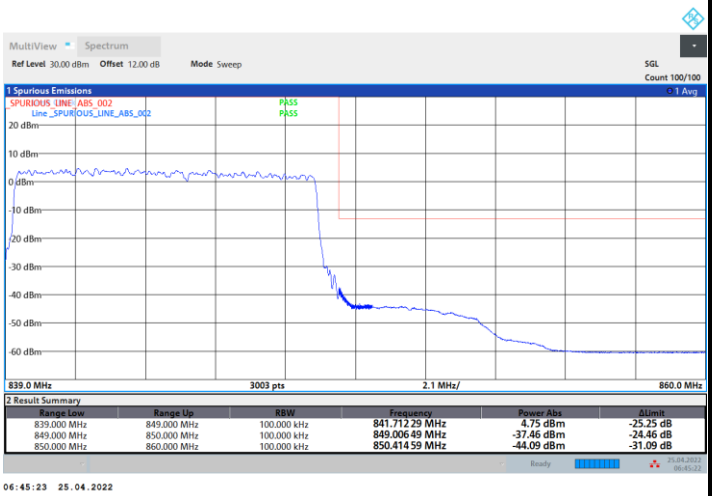


FR1 n5 / 10MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

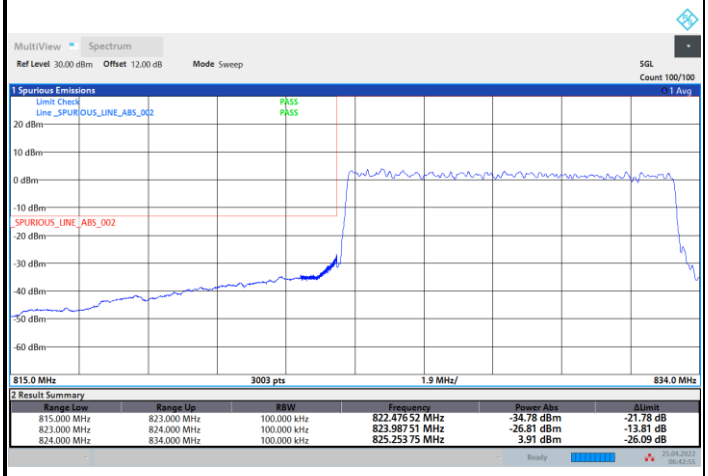


Highest Band Edge

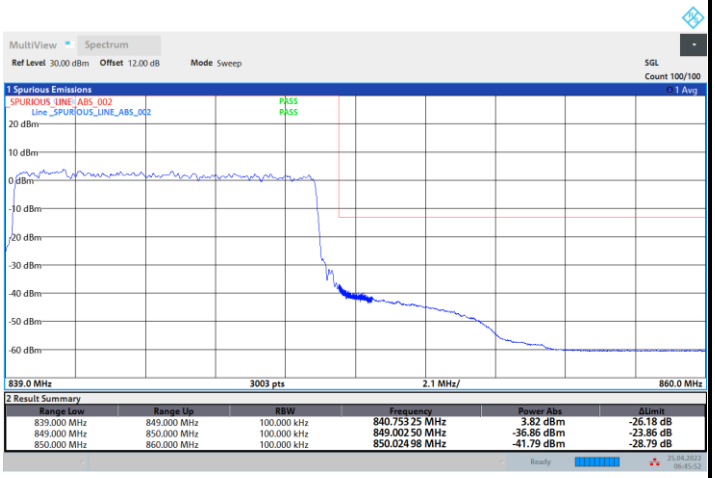


FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

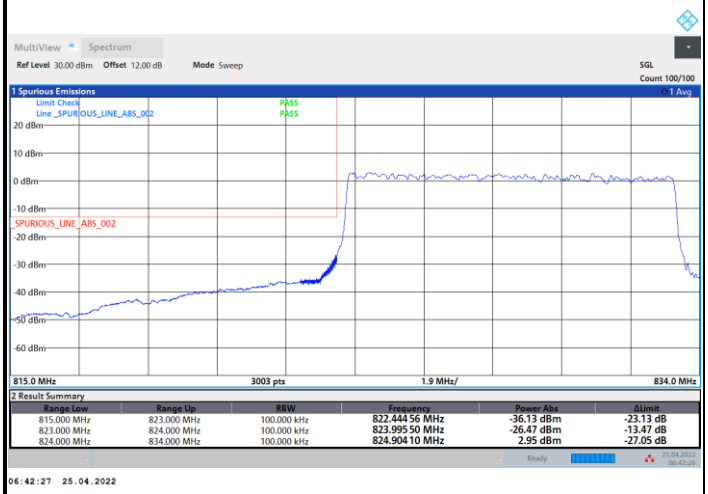


Highest Band Edge

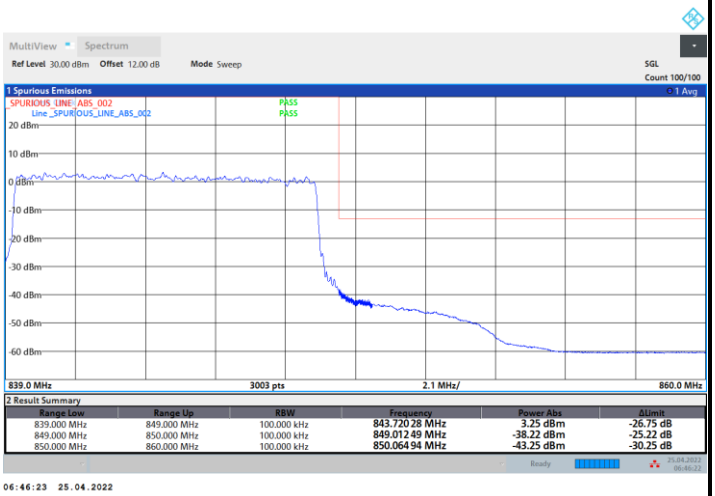


FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

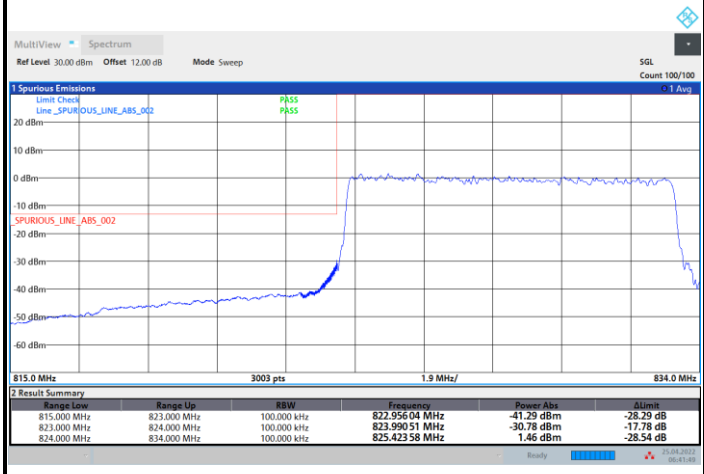


Highest Band Edge

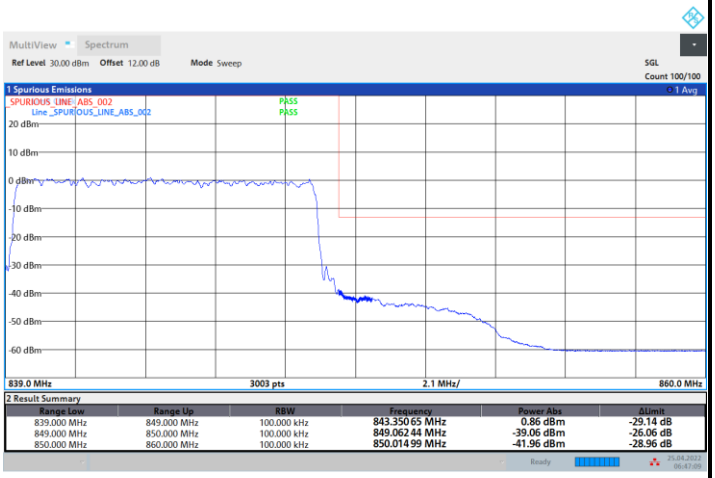


FR1 n5 / 10MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

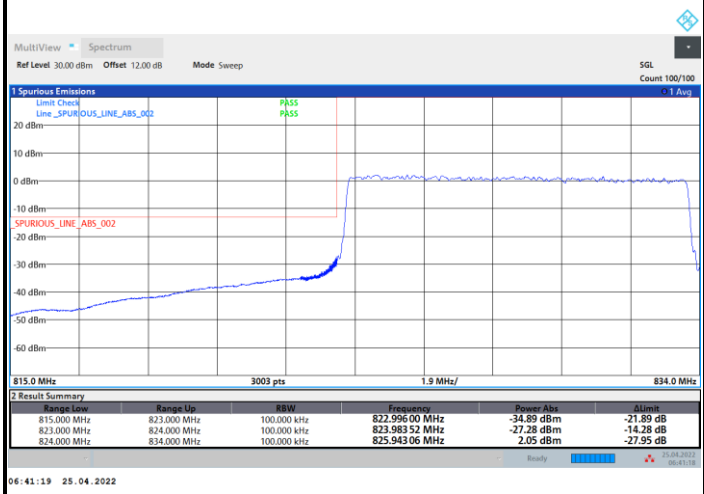


Highest Band Edge

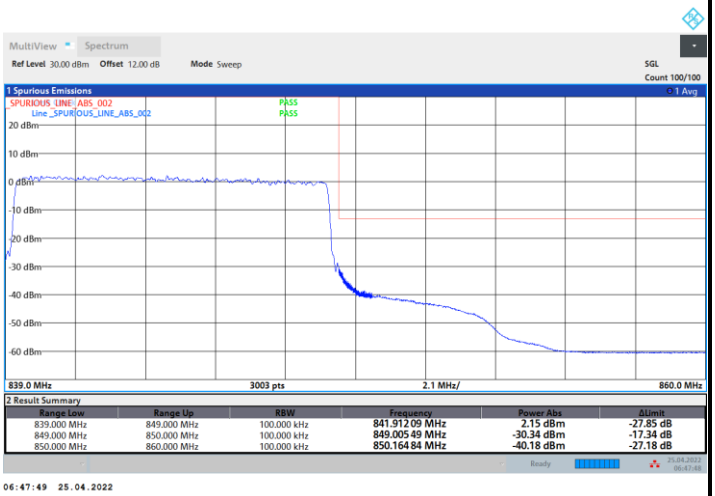


FR1 n5 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

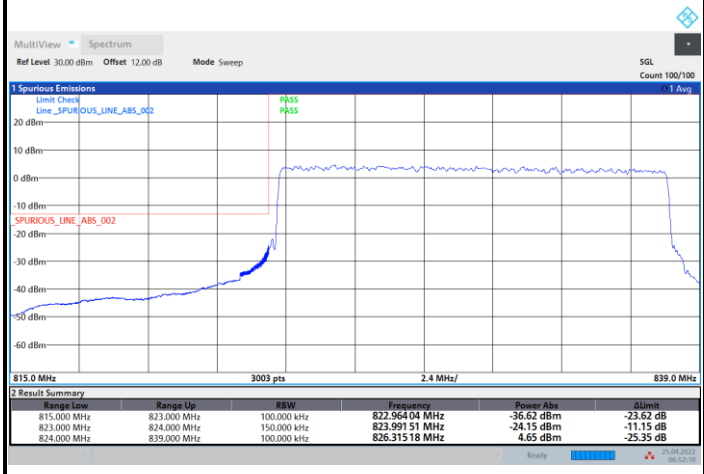


Highest Band Edge

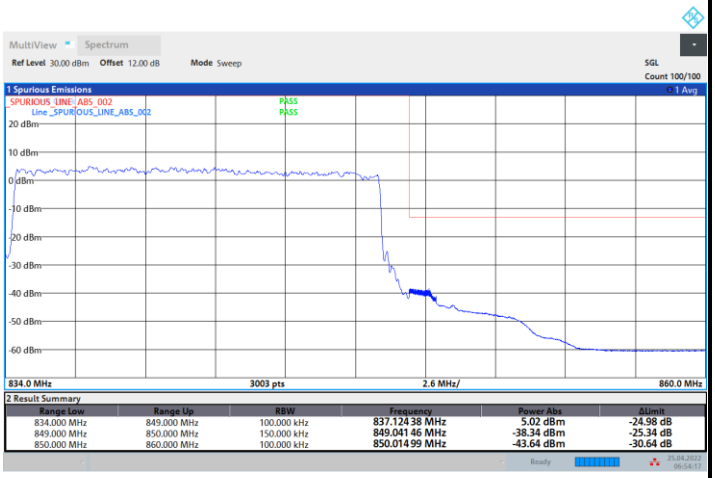


FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

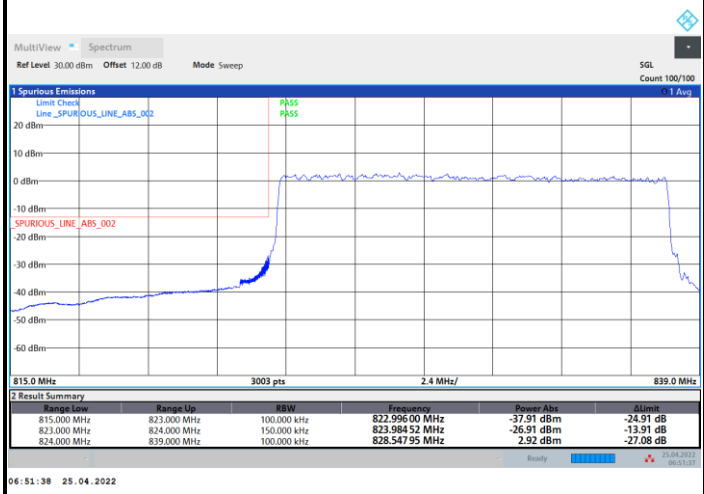


Highest Band Edge

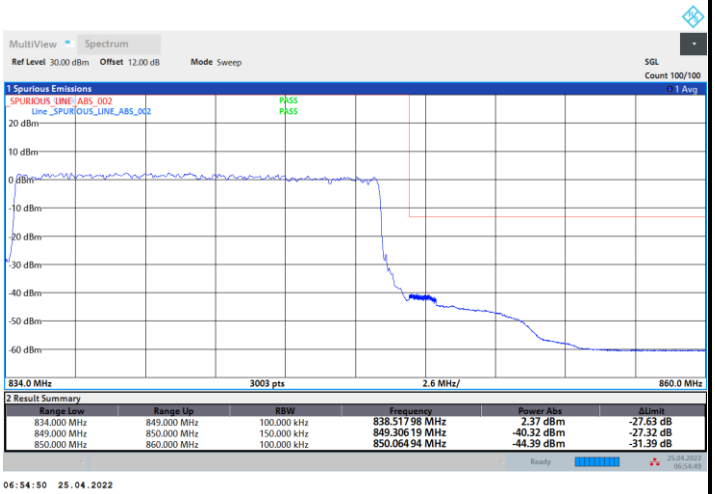


FR1 n5 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

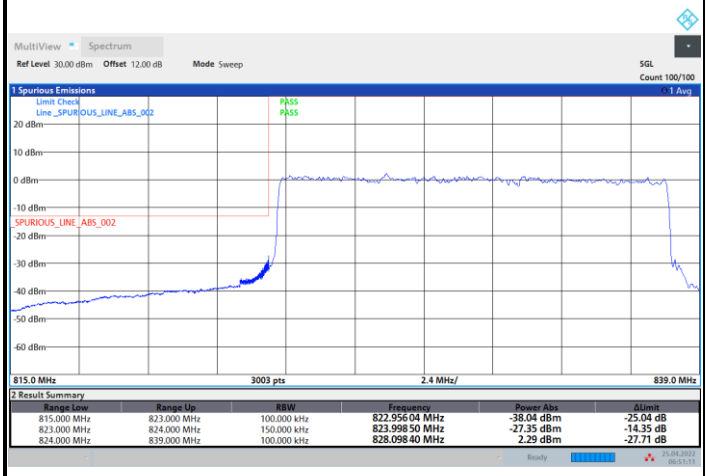


Highest Band Edge

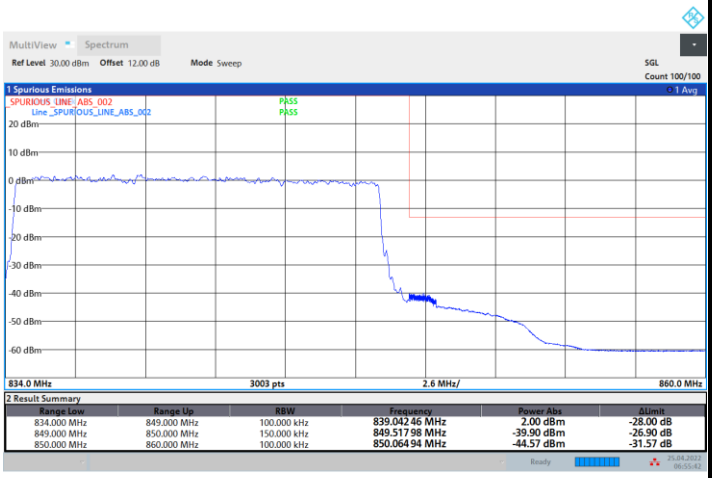


FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

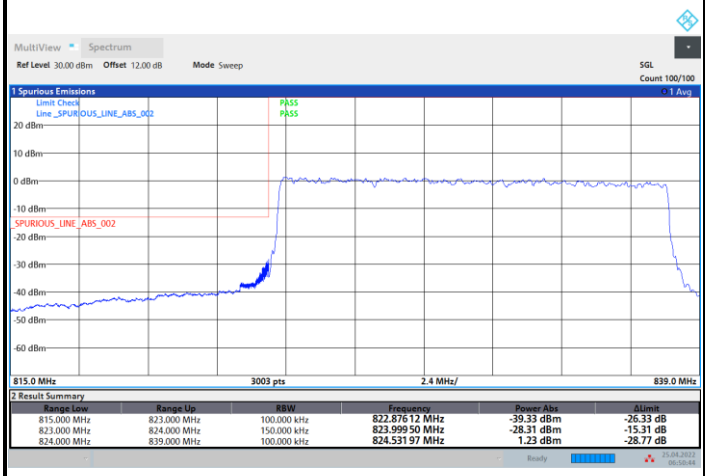


Highest Band Edge

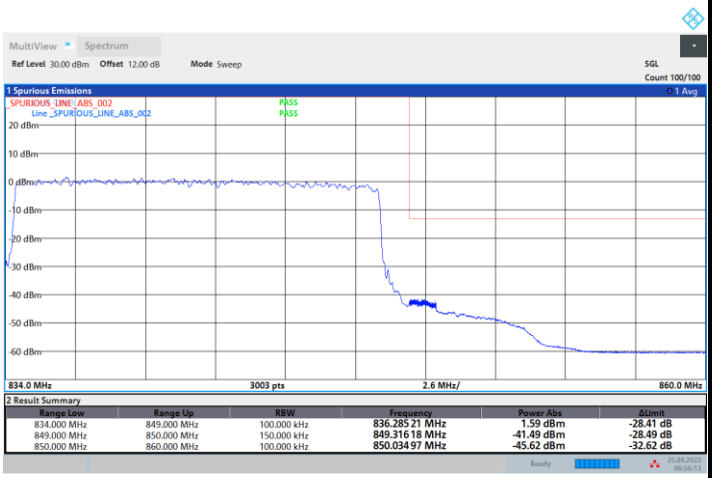


FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

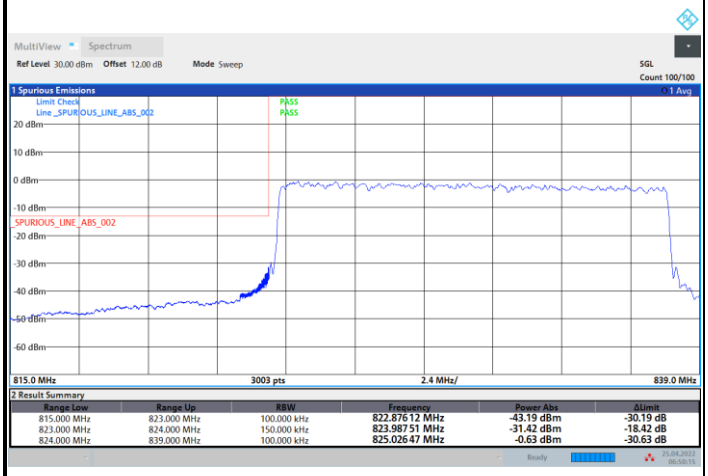


Highest Band Edge

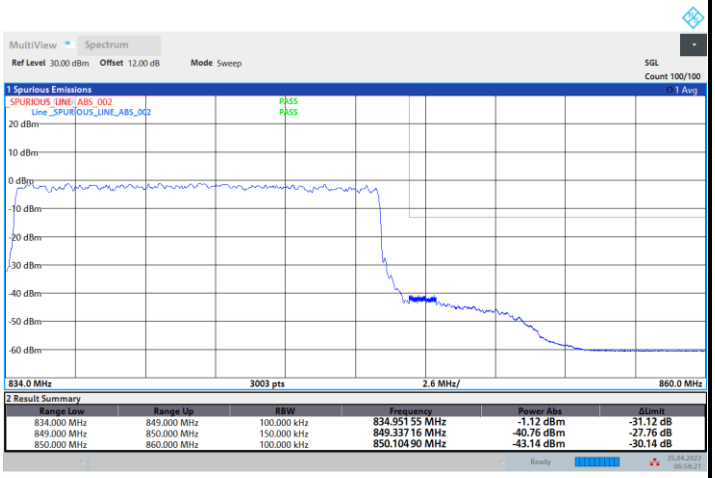


FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

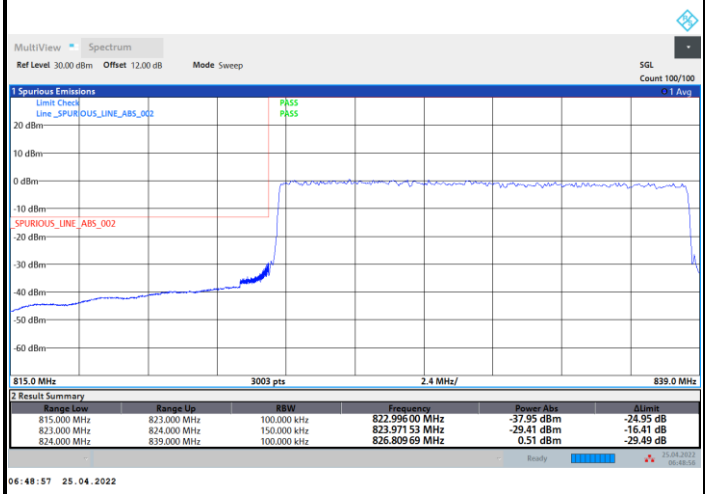


Highest Band Edge

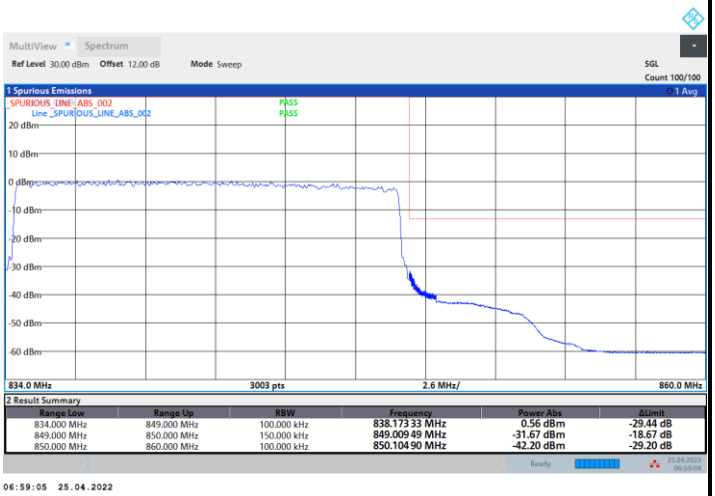


FR1 n5 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

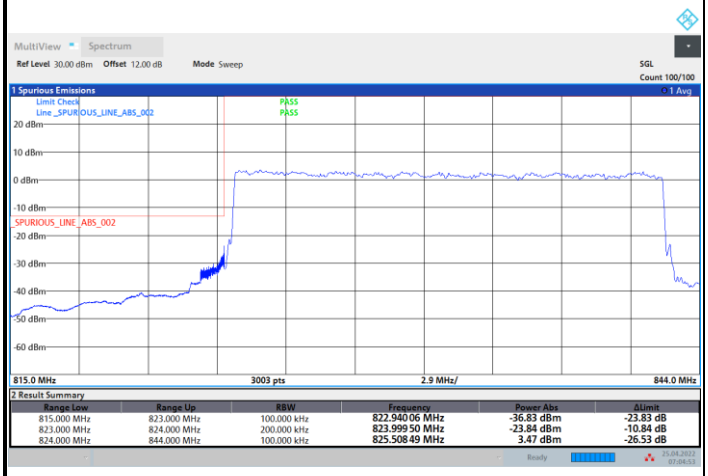


Highest Band Edge

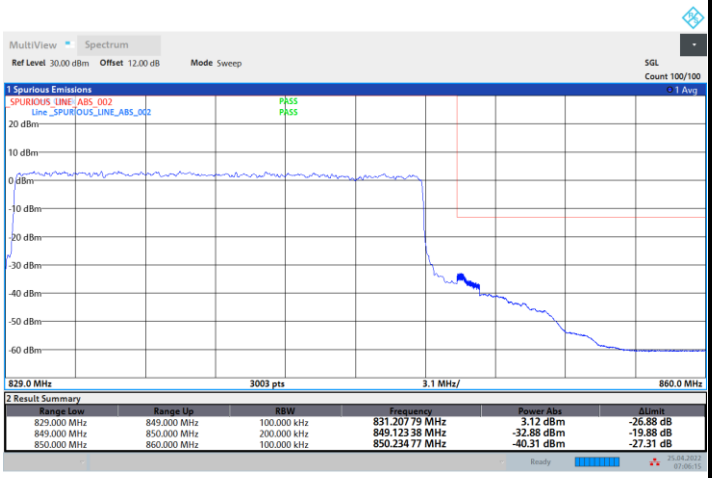


FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

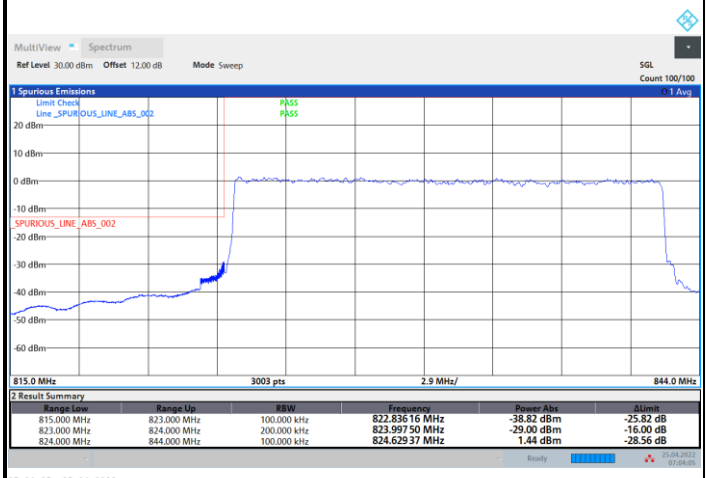


Highest Band Edge

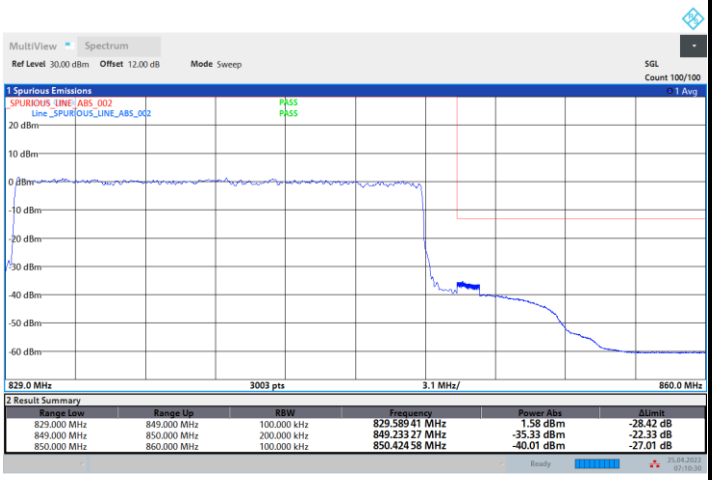


FR1 n5 / 20MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

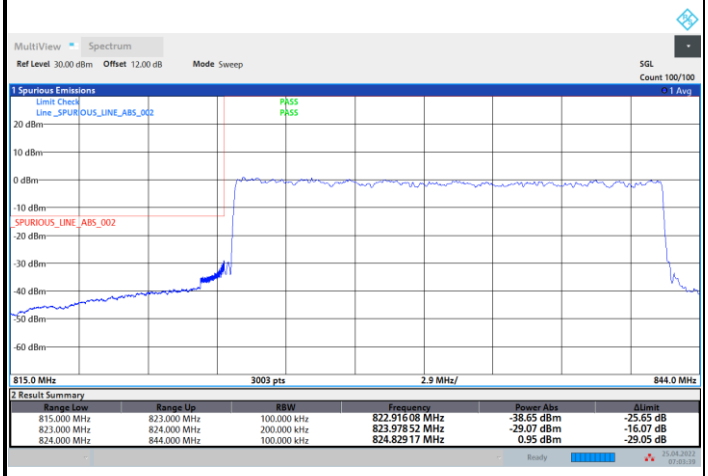


Highest Band Edge

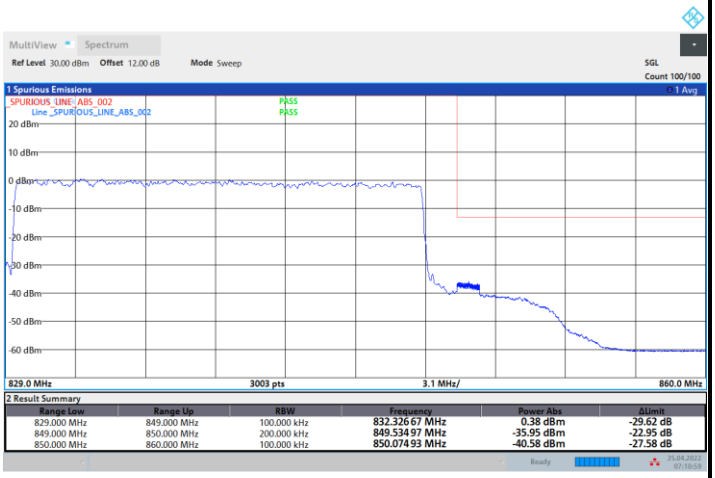


FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

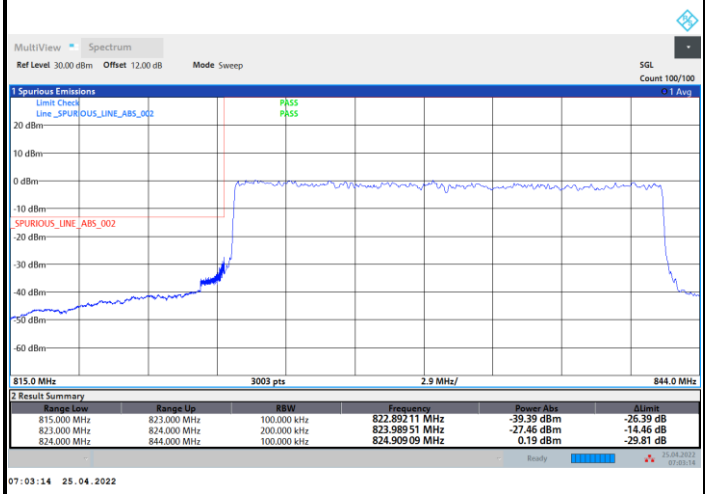


Highest Band Edge

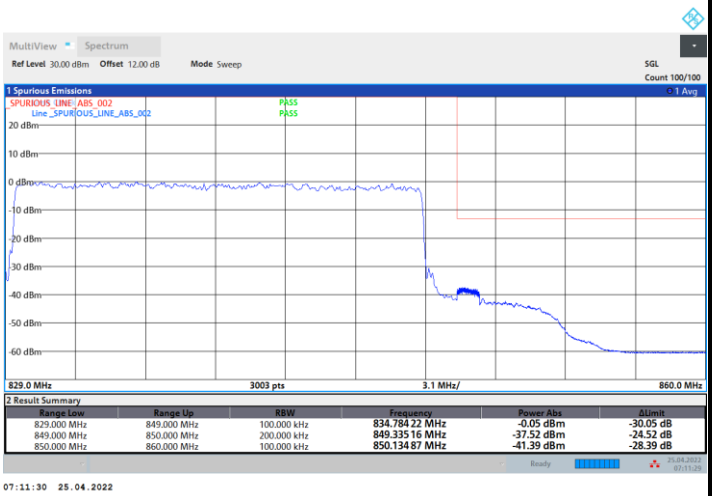


FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

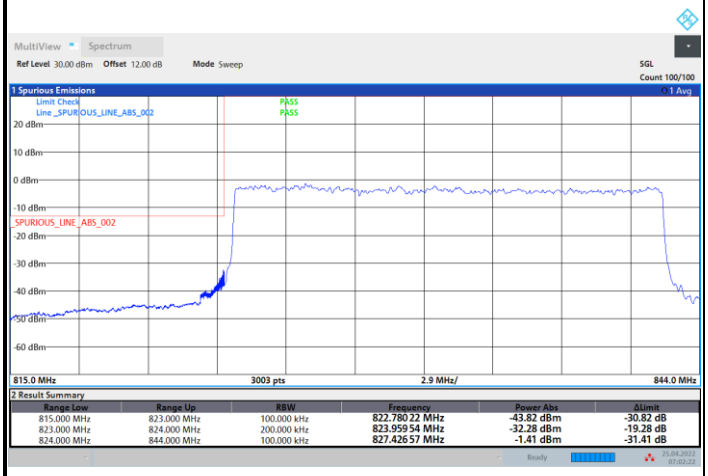


Highest Band Edge

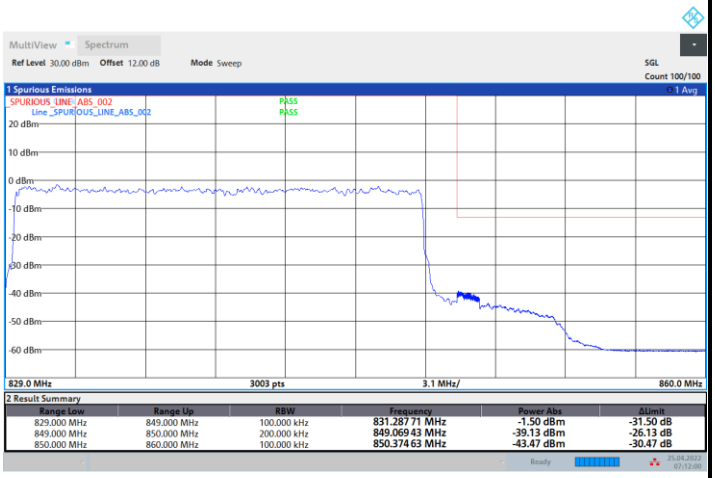


FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

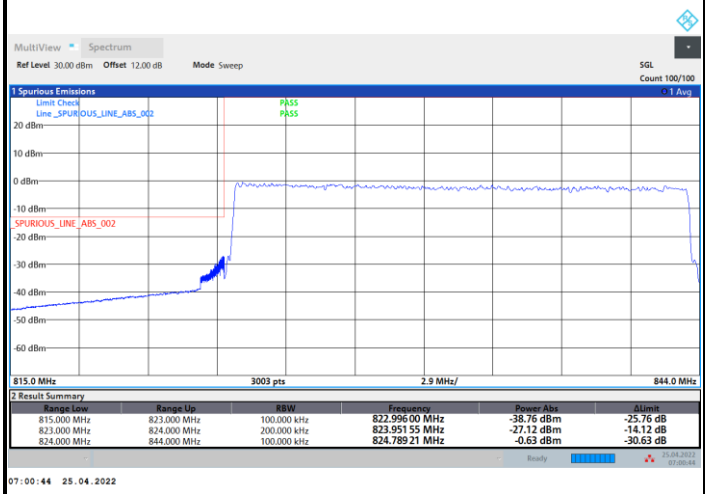


Highest Band Edge

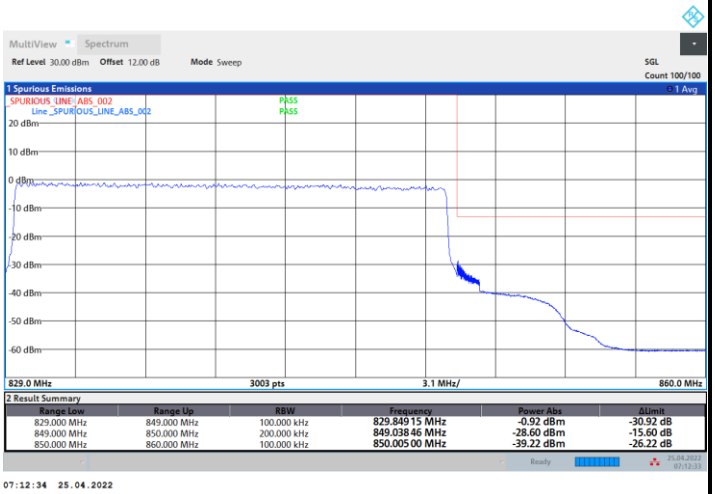


FR1 n5 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



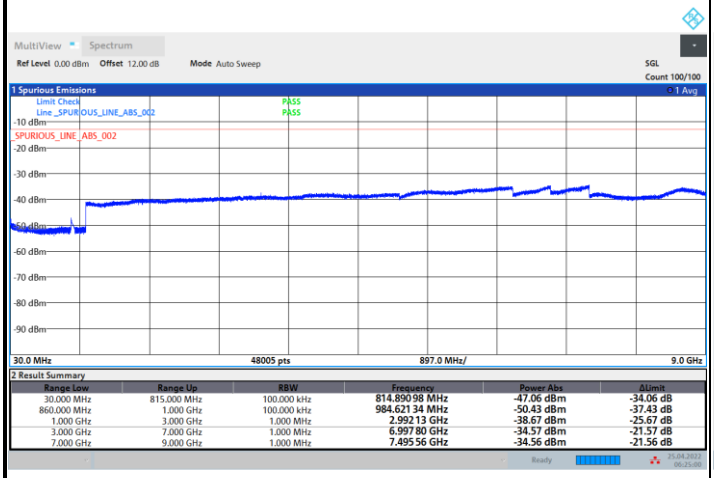
Highest Band Edge



Conducted Spurious Emission

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

Lowest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.890 98 MHz	-47.06 dBm	-34.06 dB
860.000 MHz	1.000 GHz	100.000 kHz	984.621 34 MHz	-50.43 dBm	-37.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.992 13 GHz	-38.67 dBm	-25.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.997 80 GHz	-34.57 dBm	-21.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.495 56 GHz	-34.56 dBm	-21.56 dB

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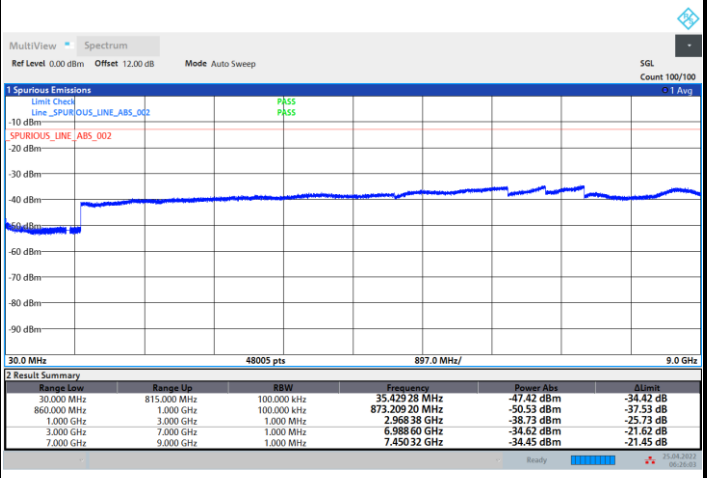
Middle Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	35.429 28 MHz	-47.42 dBm	-34.42 dB
860.000 MHz	1.000 GHz	100.000 kHz	873.209 20 MHz	-50.53 dBm	-37.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.968 38 GHz	-38.73 dBm	-25.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.988 60 GHz	-34.62 dBm	-21.62 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.450 32 GHz	-34.45 dBm	-21.45 dB

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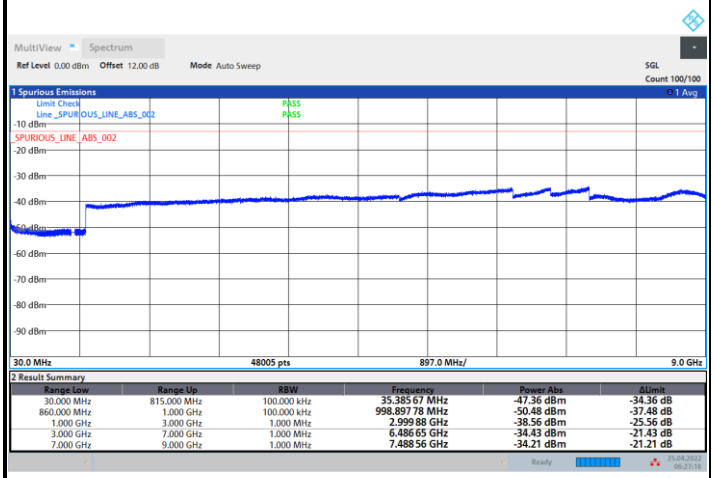
Highest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	35.385 67 MHz	-47.36 dBm	-34.36 dB
860.000 MHz	1.000 GHz	100.000 kHz	998.897 78 MHz	-50.48 dBm	-37.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.999 88 GHz	-38.56 dBm	-25.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.486 65 GHz	-34.43 dBm	-21.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.488 56 GHz	-34.21 dBm	-21.21 dB

06:27:16 25.04.2022

Frequency Stability

Test Conditions		FR1 n5 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0158	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0183	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0084	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0182	

Note:

1. Normal Voltage = 3.86 V.；Battery End Point (BEP) = 3.40 V.；Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

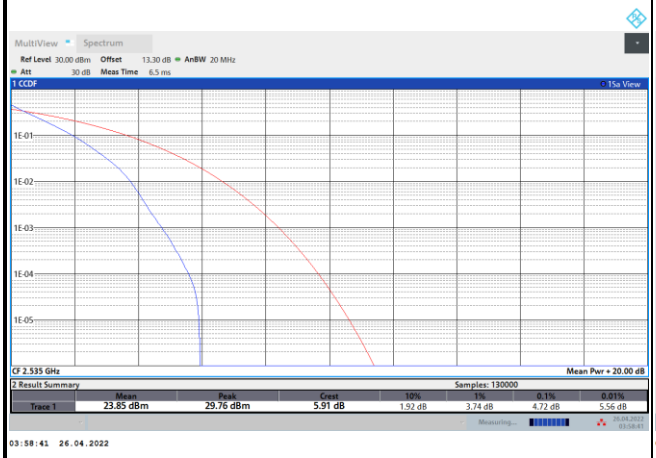
FR1 n7

Peak-to-Average Ratio

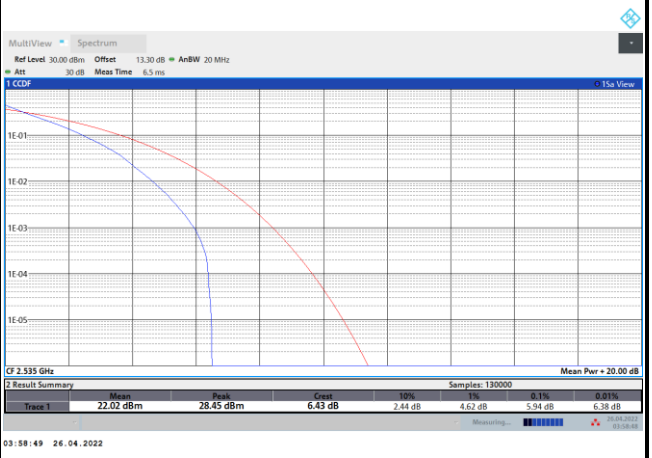
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.72	5.94	6.38	6.44	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.72				PASS

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

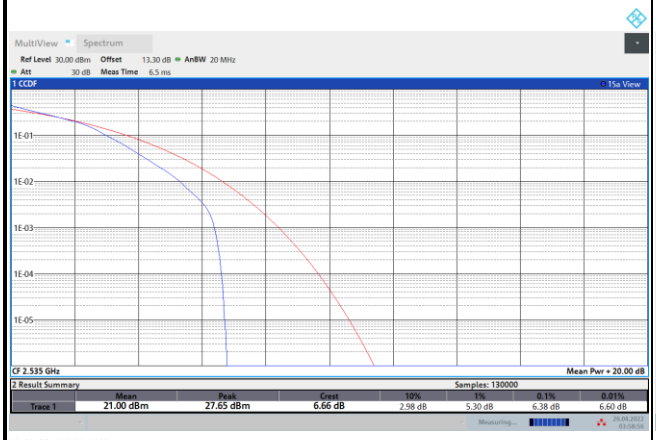
PI/2 BPSK



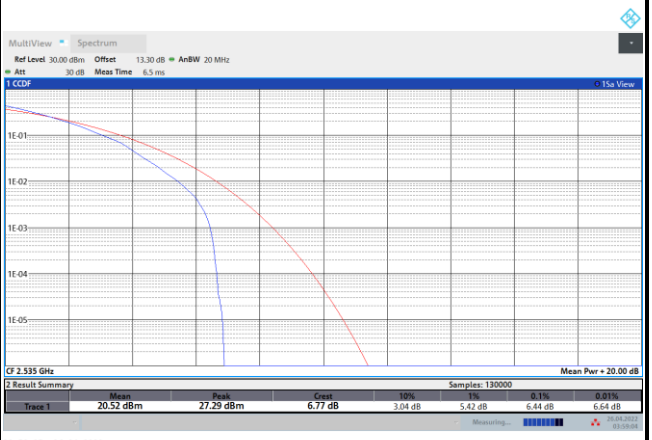
QPSK



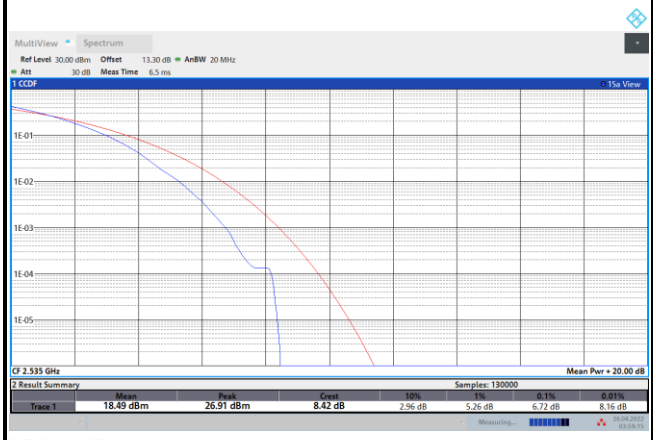
16QAM



64QAM



256QAM



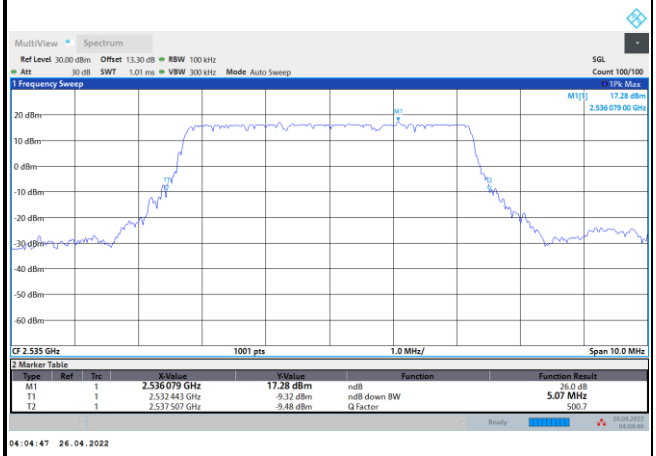
26dB Bandwidth

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	5.07		9.57		14.54		18.74	
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	23.78		30.27		41.40		51.65	

Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.10	5.15	9.95	9.89	14.96	15.08	20.18	19.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.11	4.86	10.05	10.07	15.26	15.29	20.34	20.58
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	25.08	24.88	30.45	30.33	41.88	41.72	51.25	51.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	25.38	25.18	29.97	30.09	41.32	41.40	50.95	51.85

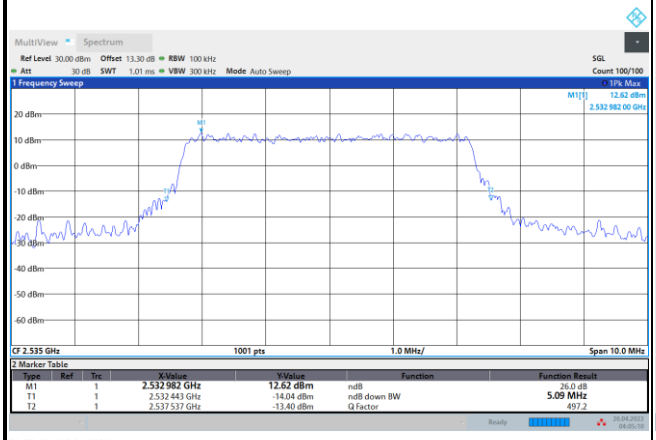
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

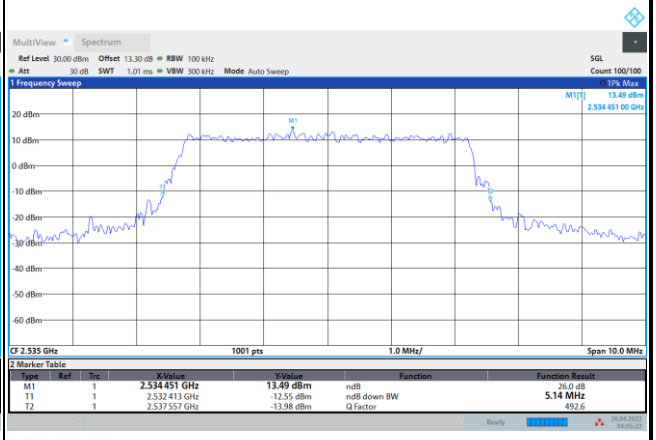


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

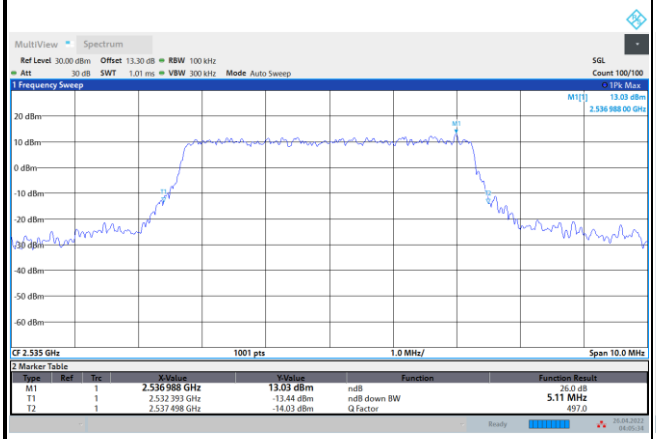
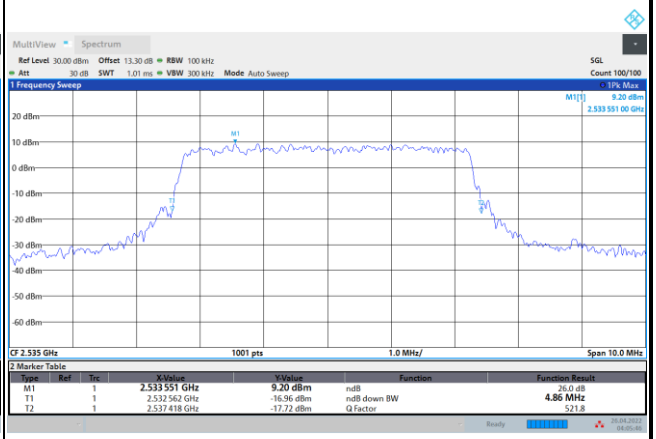
QPSK



16QAM



64QAM



256QAM