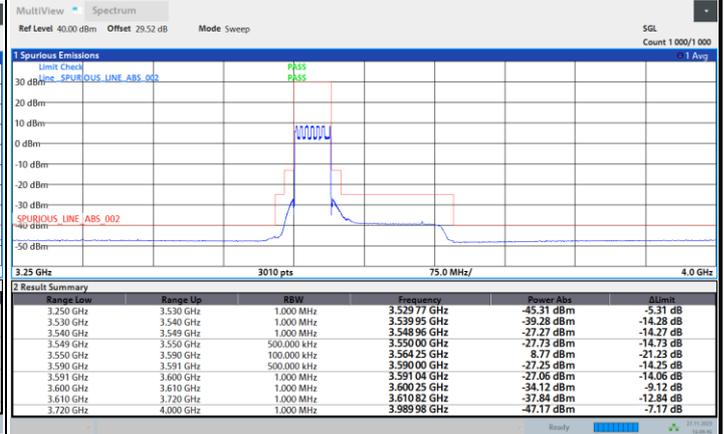
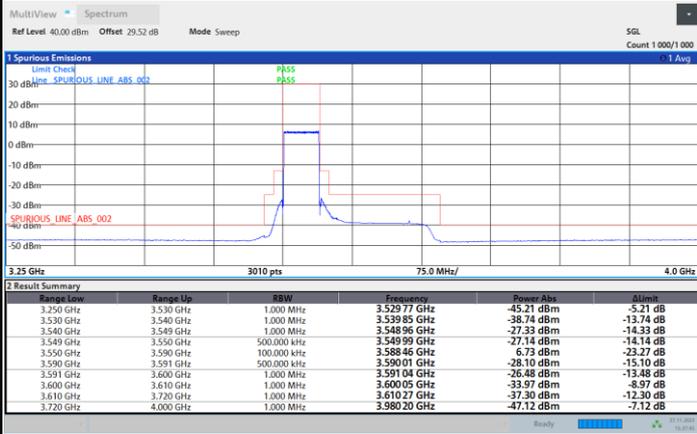




FR1 n48 / 40MHz / Lowest Channel / MASK

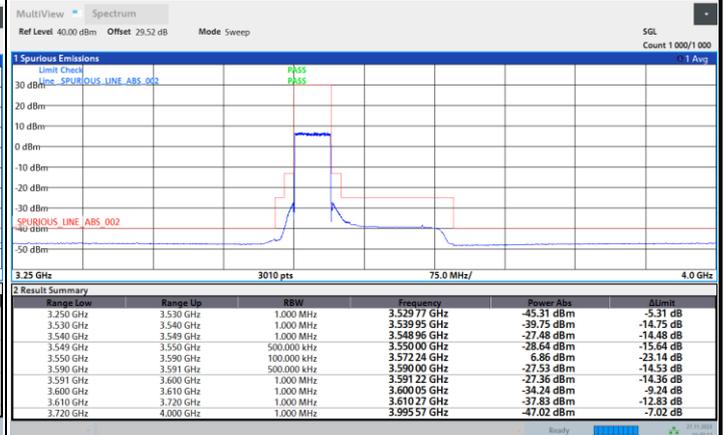
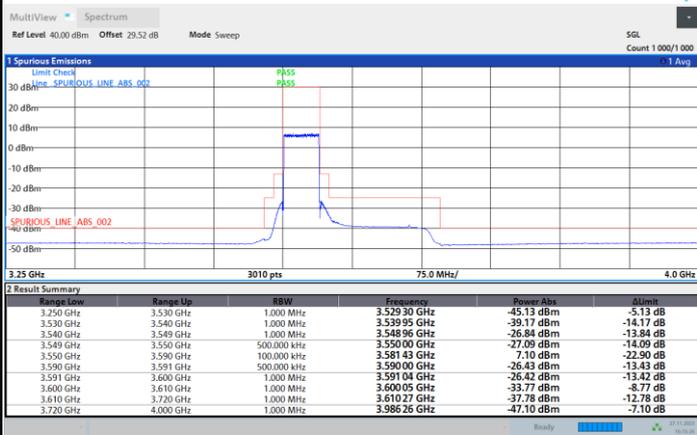
QPSK

16QAM



64QAM

256QAM

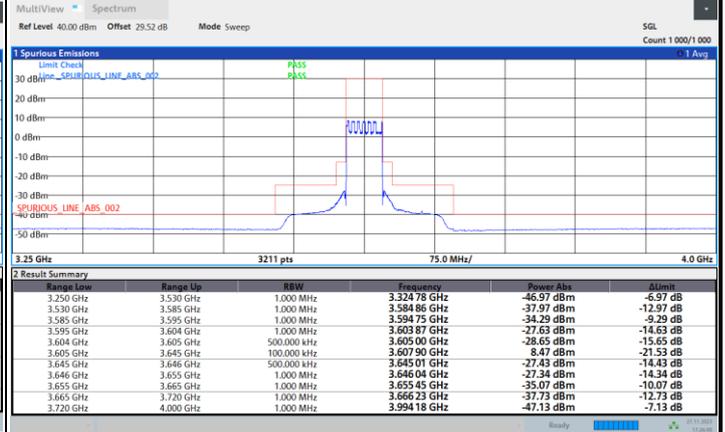
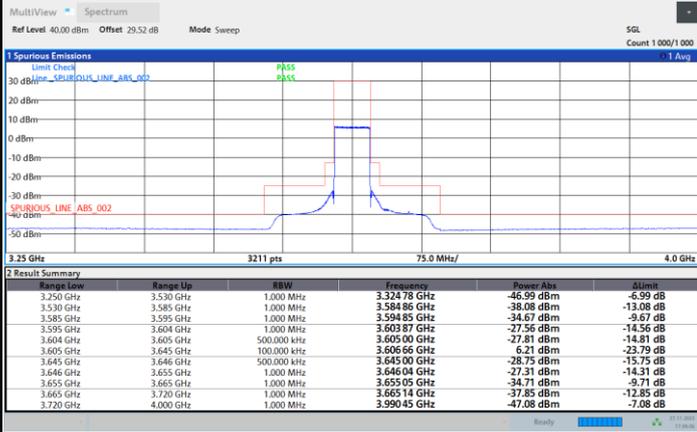




FR1 n48 / 40MHz / Middle Channel / MASK

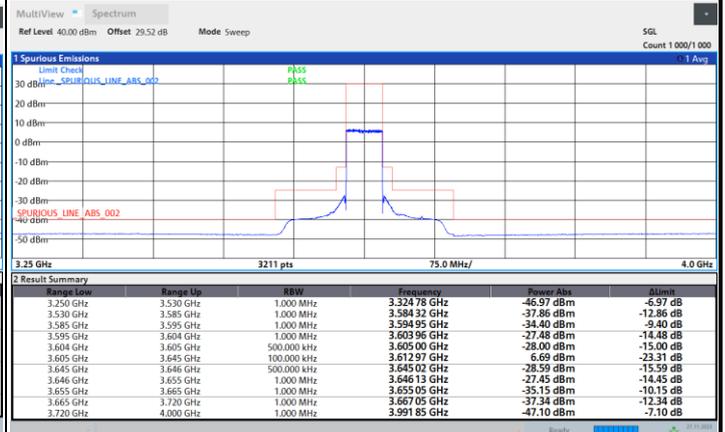
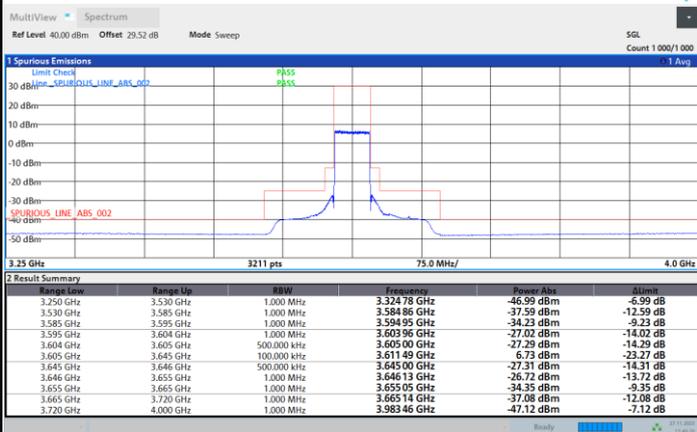
QPSK

16QAM



64QAM

256QAM

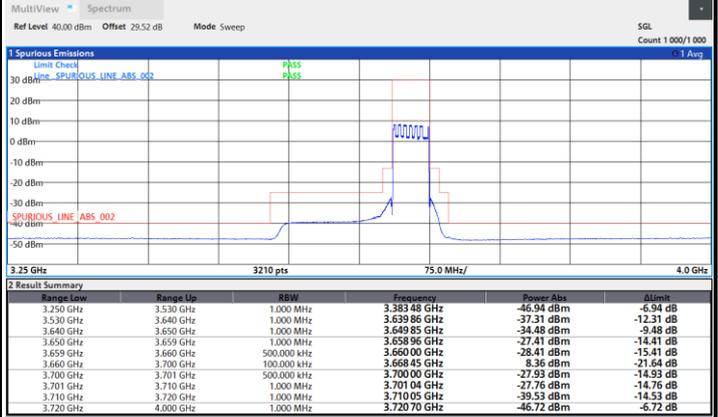
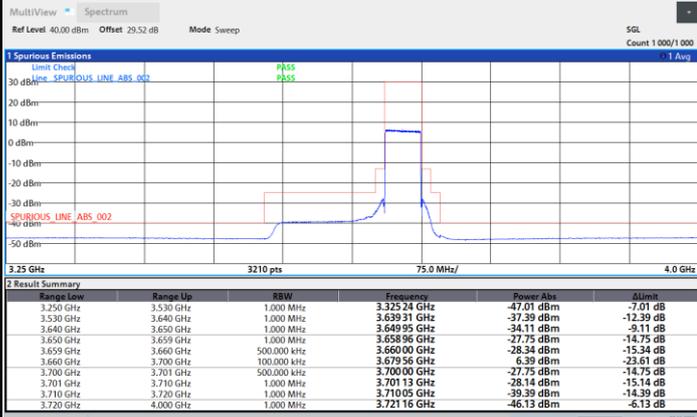




FR1 n48 / 40MHz / Highest Channel / MASK

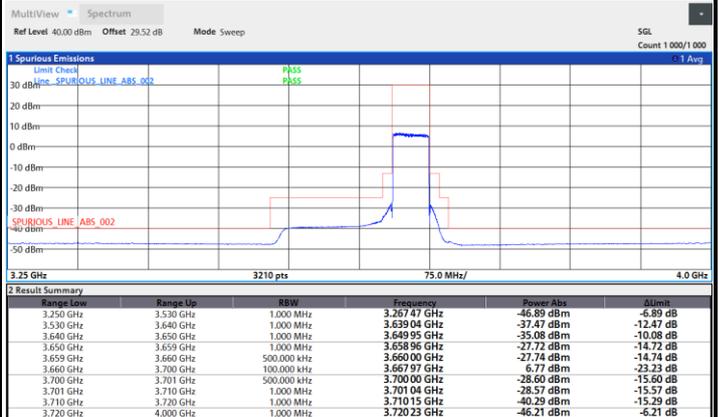
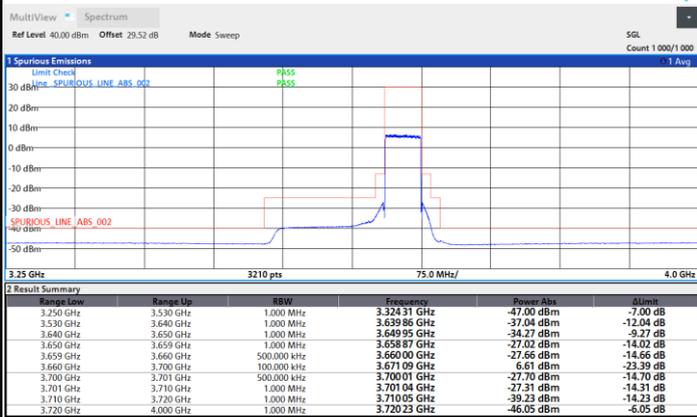
QPSK

16QAM



64QAM

256QAM



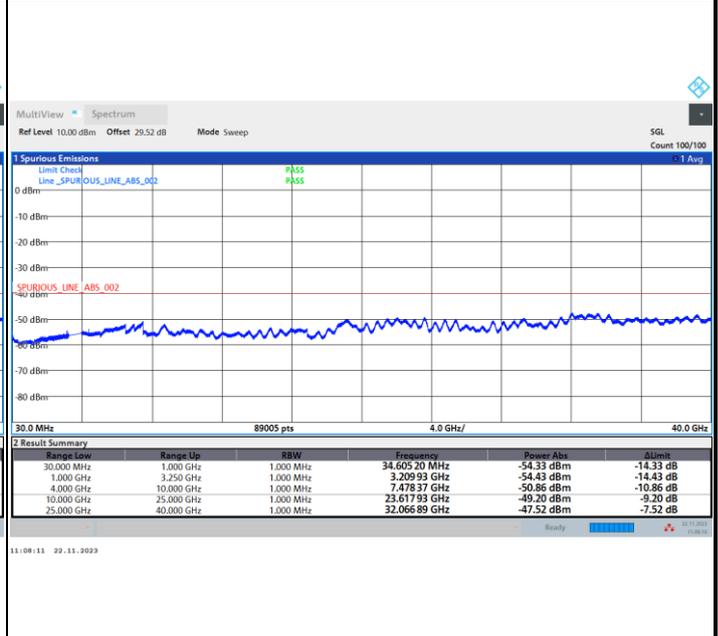
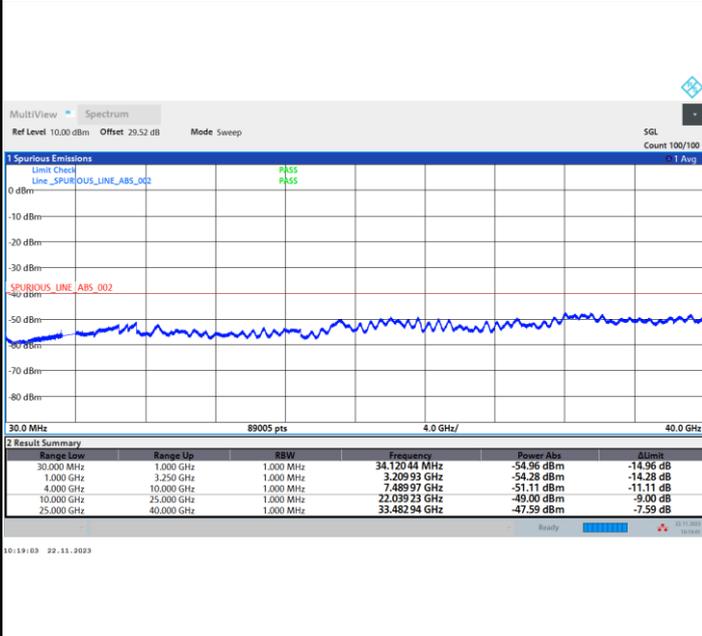


# Conducted Spurious Emission

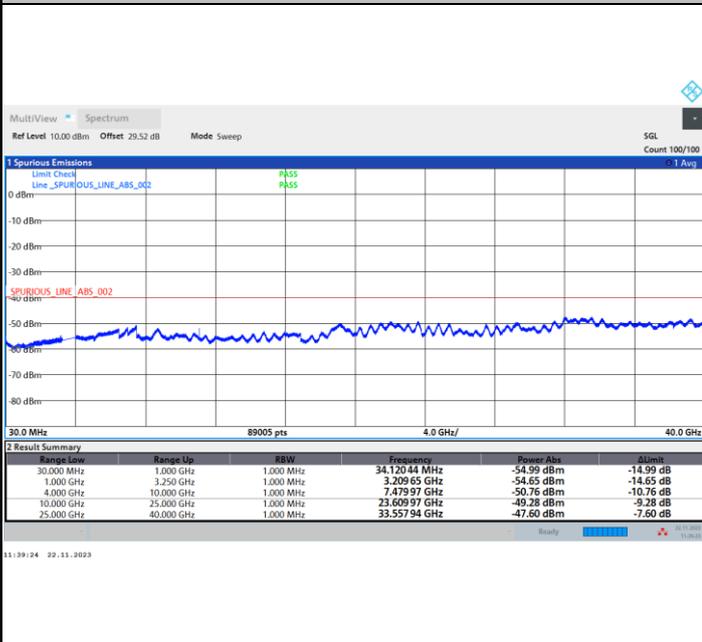
## FR1 n48 / 10MHz / QPSK / CSE

### Lowest Channel

### Middle Channel



### Highest Channel

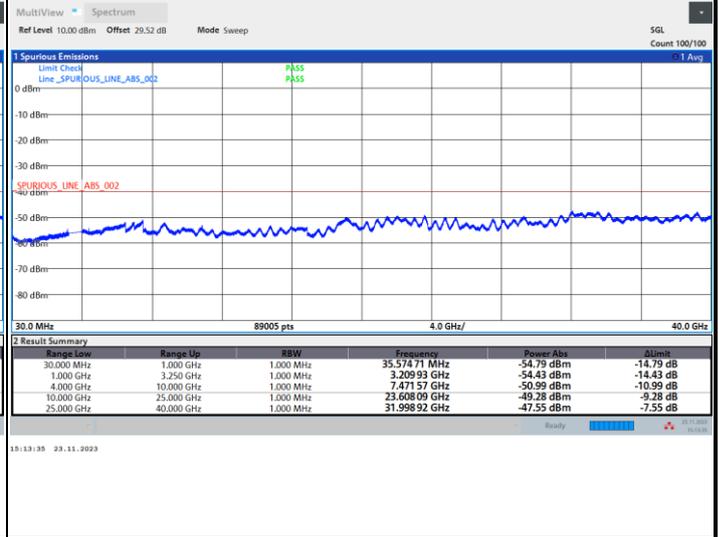




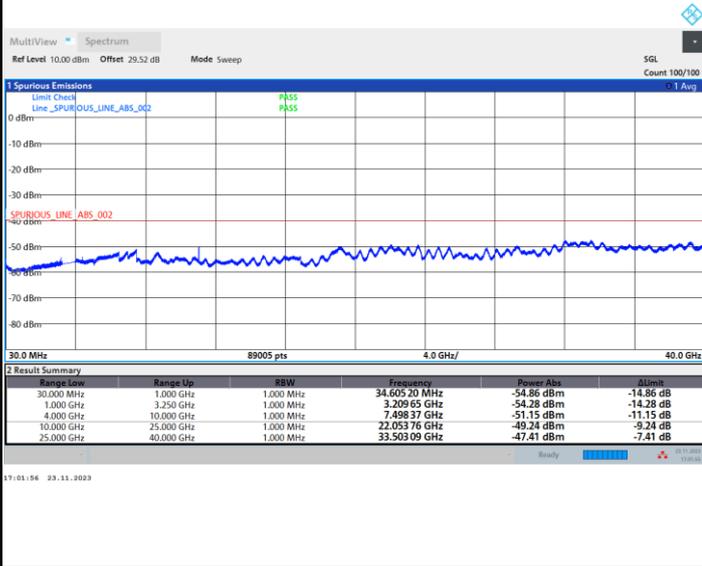
FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

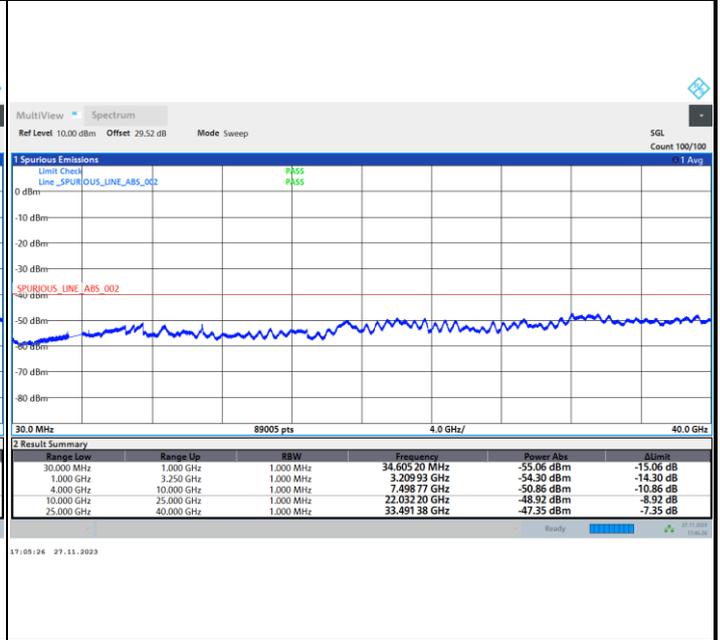
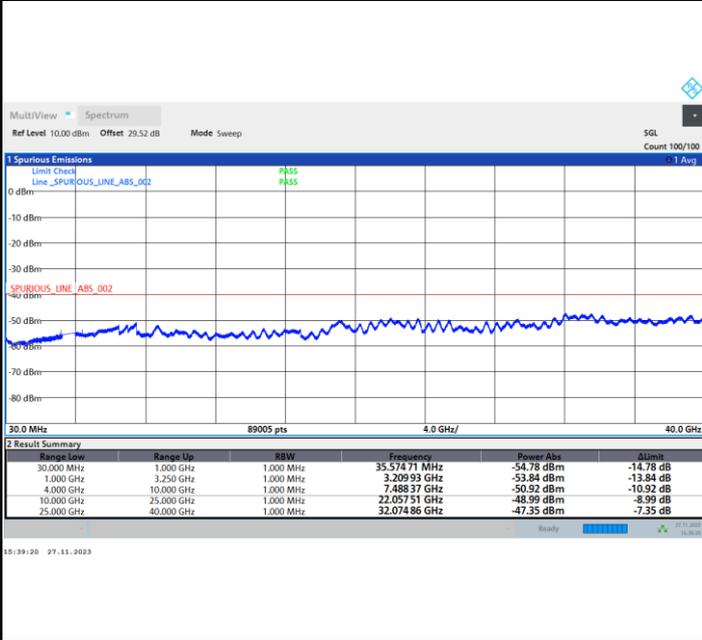




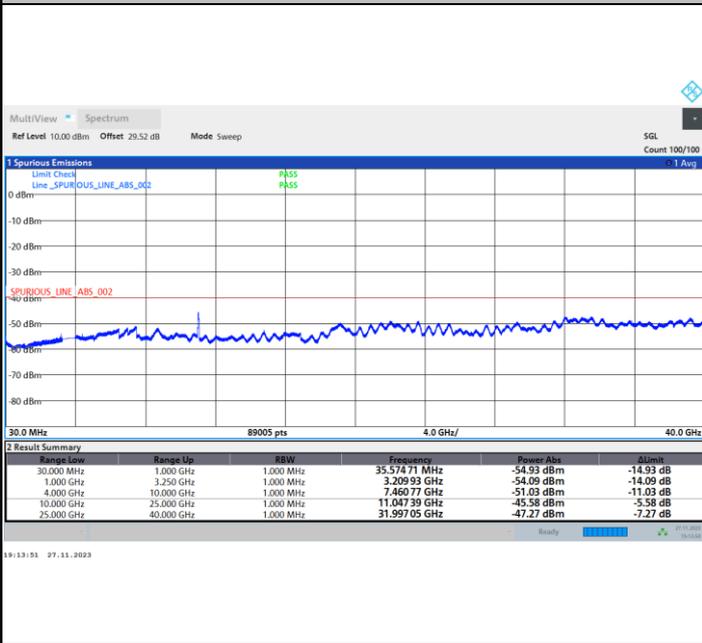
FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





**Frequency Stability**

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	2.3172	PASS
40	Normal Voltage	0.4414	
30	Normal Voltage	0.4414	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.6069	
-10	Normal Voltage	0.0552	
-20	Normal Voltage	0.6621	
-30	Normal Voltage	0.0552	
20	Maximum Voltage	0.4966	
20	Normal Voltage	0.1655	
20	Minimum Voltage	0.7724	

**Note:**

1. Normal Voltage = 115 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO ANT 3>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz)						
	<SISO> Lowest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	20.63	20.61	20.49	20.32	19.87	20.52	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Lowest CH	20.33	20.46	20.28	20.24	19.93	20.25	

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz)						
	<MIMO 4TX> Lowest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	44.15	44.13	44.01	43.84	43.39	44.04	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Lowest CH	43.85	43.98	43.80	43.76	43.45	43.77	
Limit	47dBm/10MHz						
Result	PASS						

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz)						
	<SISO> Middle Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	20.12	20.29	19.74	19.95	19.57	19.83	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	20.39	20.46	19.78	19.61	19.73	20.05	

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz)						
	<MIMO 4TX> Middle Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	43.64	43.81	43.26	43.47	43.09	43.35	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	43.91	43.98	43.30	43.13	43.25	43.57	
Limit	47dBm/10MHz						
Result	PASS						

**Note**

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz)						
	<SISO> Highest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Highest CH	20.02	20.24	19.28	19.29	19.64	20.01	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Highest CH	20.02	20.02	19.39	19.35	19.62	19.66	

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz)						
	<MIMO 4TX> Highest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Highest CH	43.54	43.76	42.80	42.81	43.16	43.53	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Highest CH	43.54	43.54	42.91	42.87	43.14	43.18	
Limit	<b>47dBm/10MHz</b>						
Result	<b>PASS</b>						

**Note**

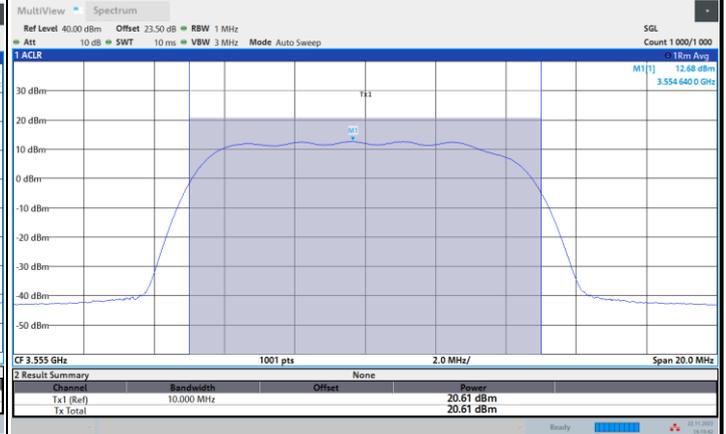
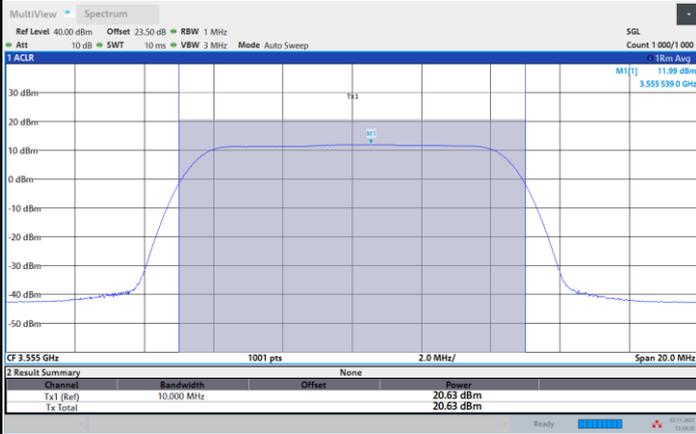
1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.



FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

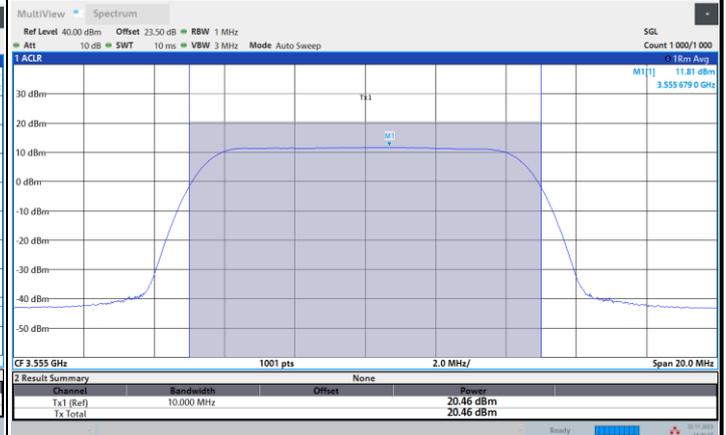
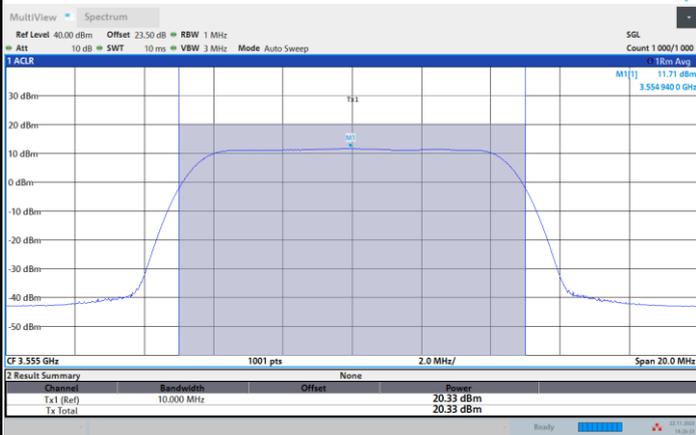
QPSK

16QAM



64QAM

256QAM

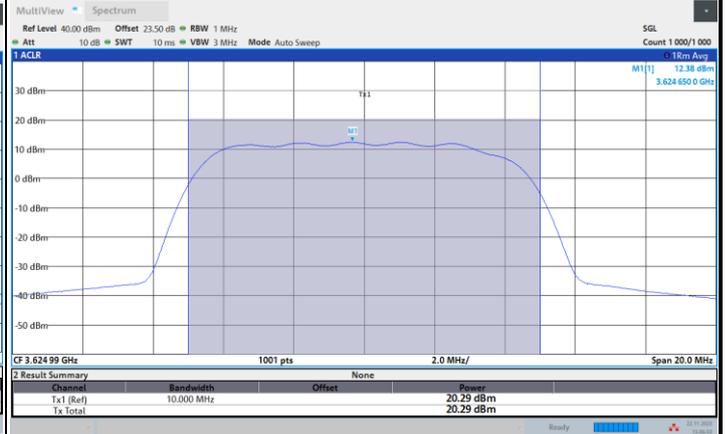
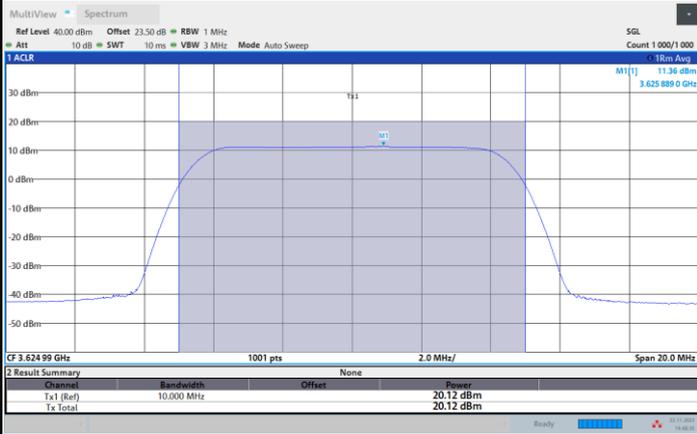




FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

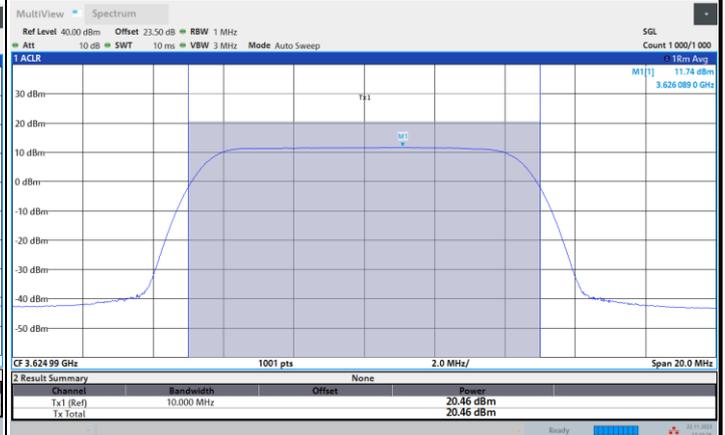
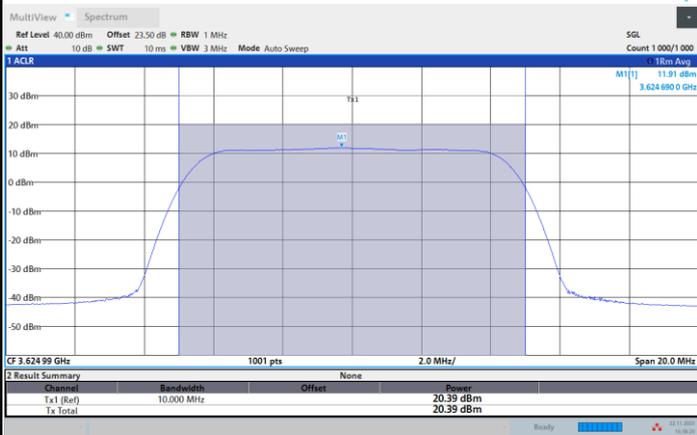
QPSK

16QAM



64QAM

256QAM

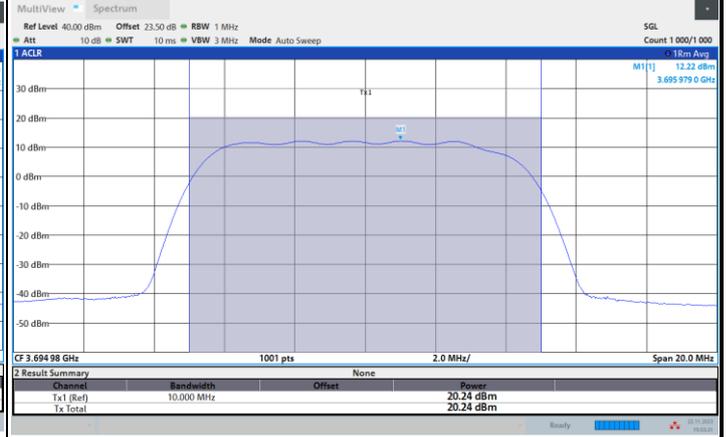
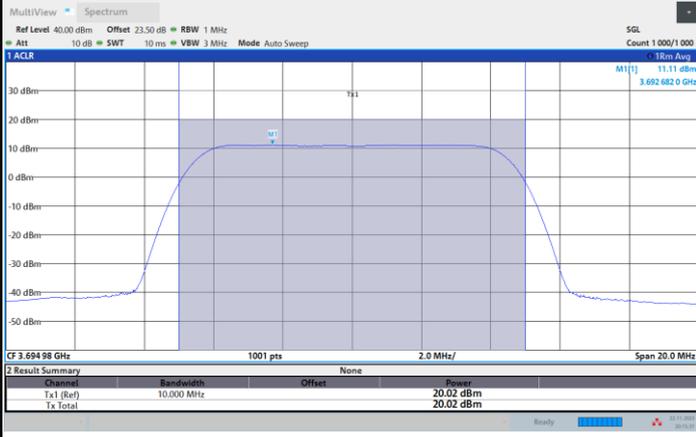




FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

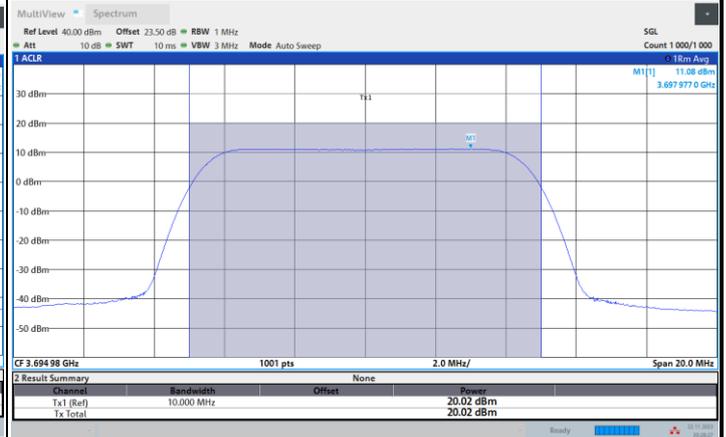
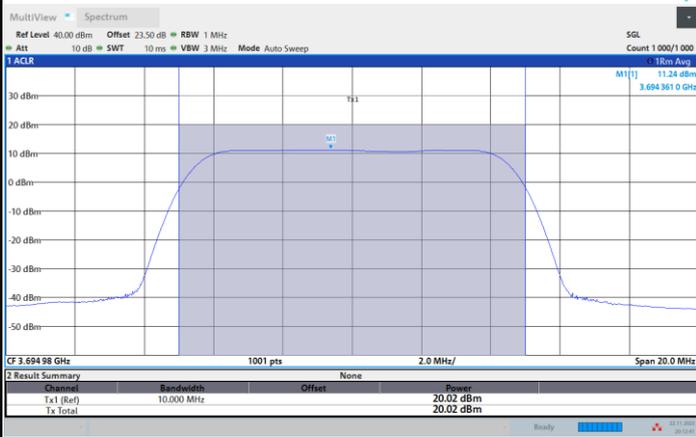
QPSK

16QAM



64QAM

256QAM

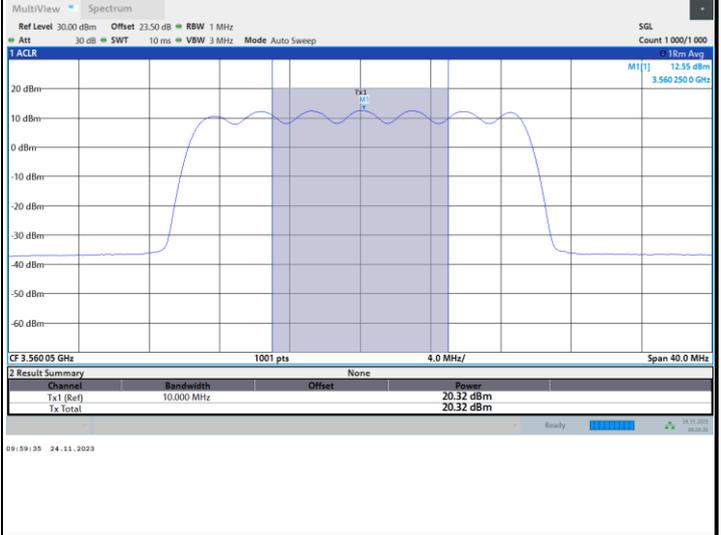
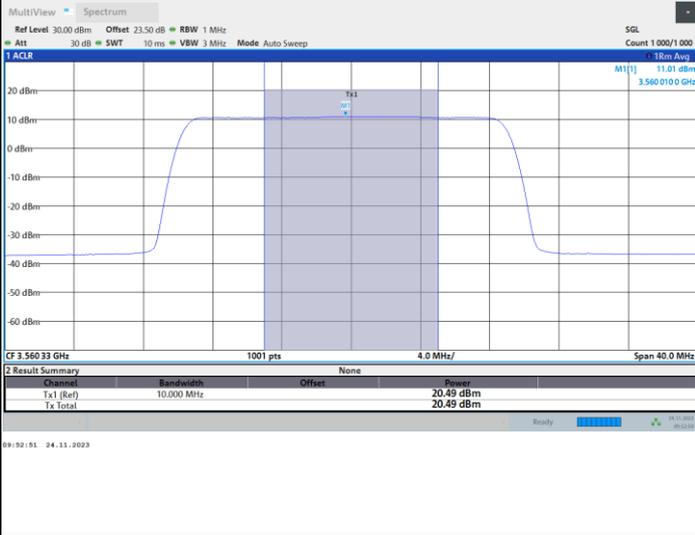




FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

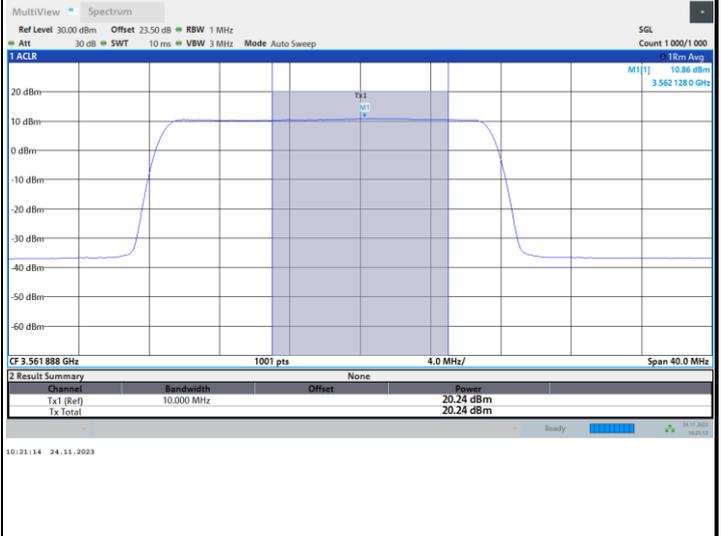
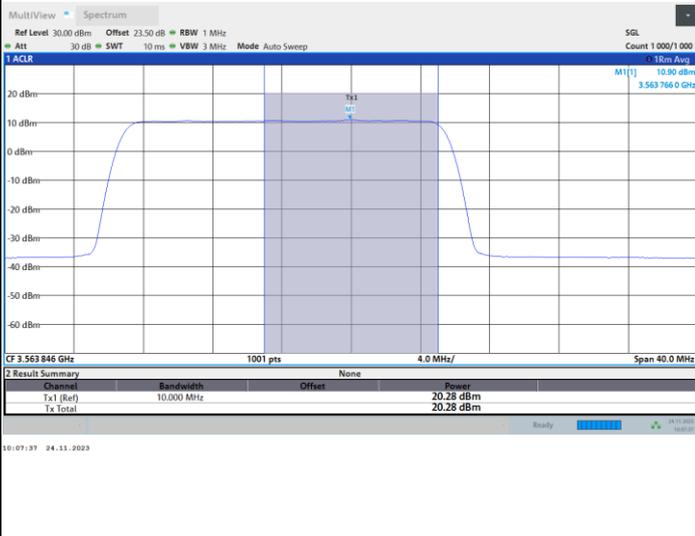
QPSK

16QAM



64QAM

256QAM

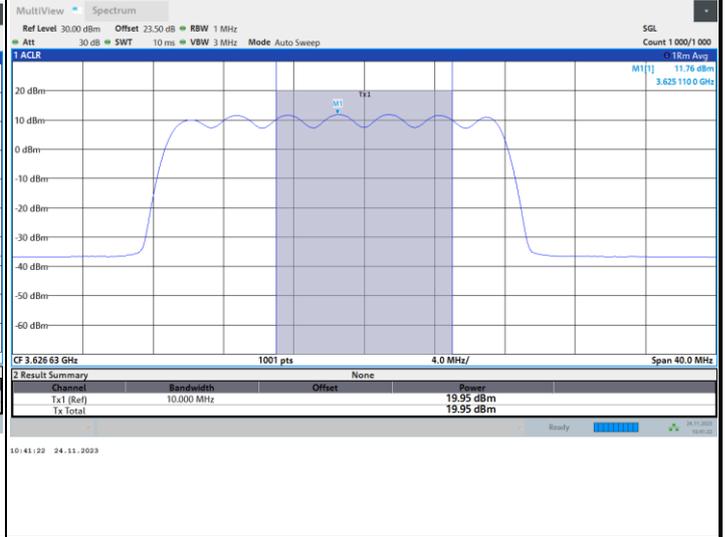
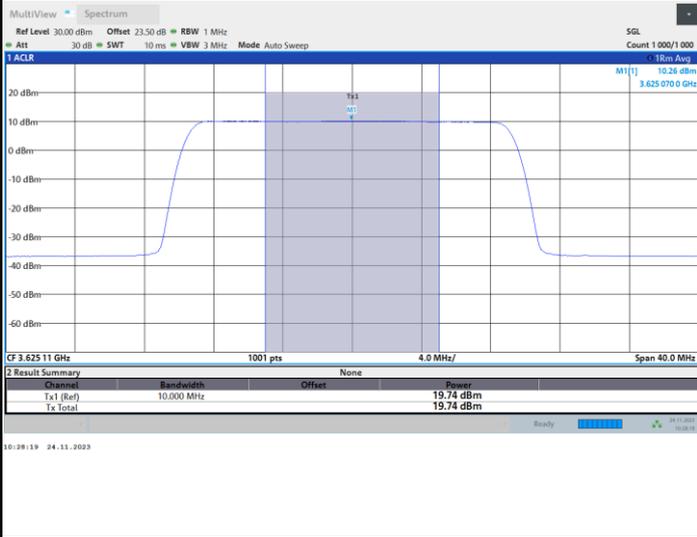




FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

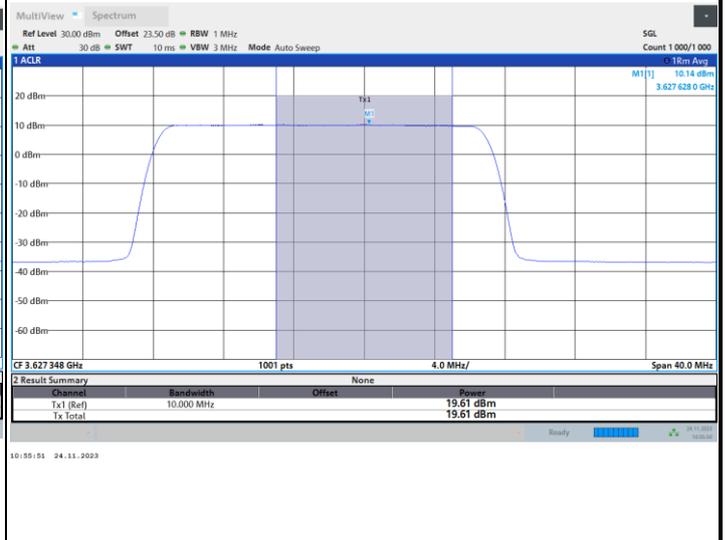
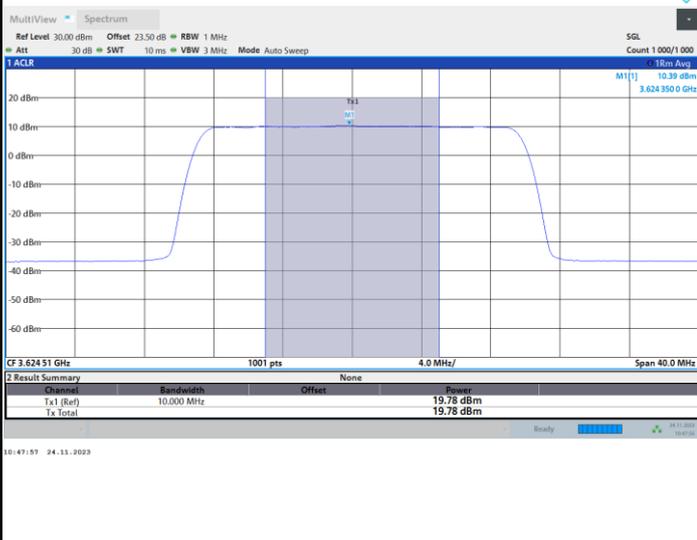
QPSK

16QAM



64QAM

256QAM

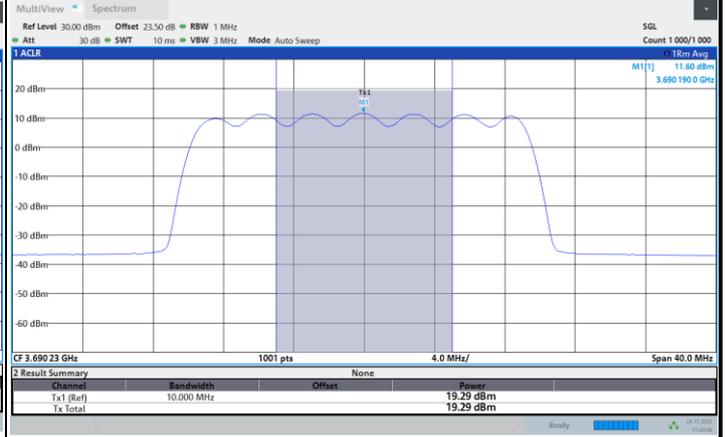
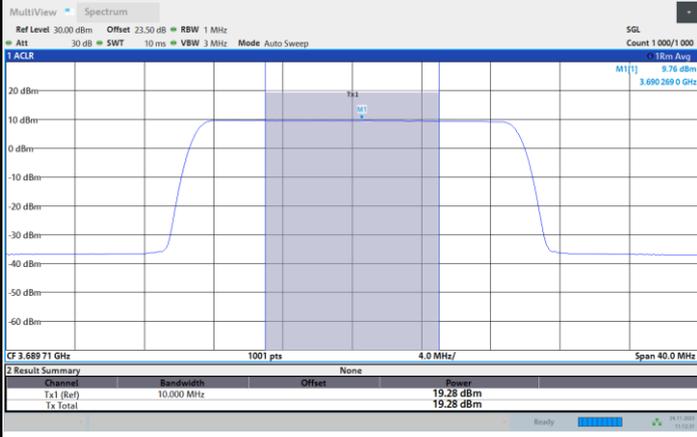




FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

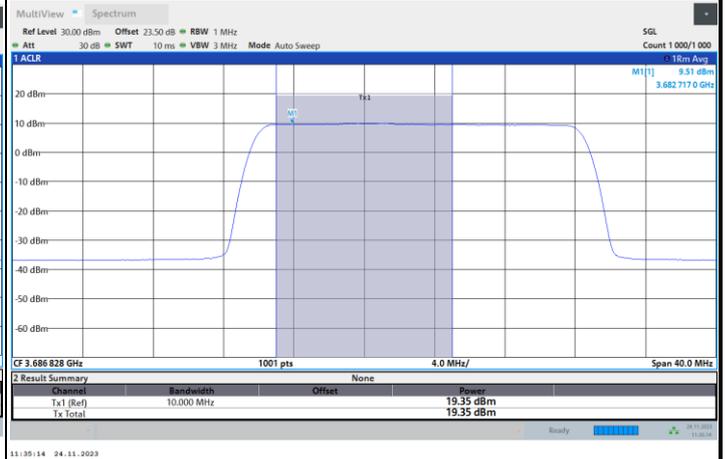
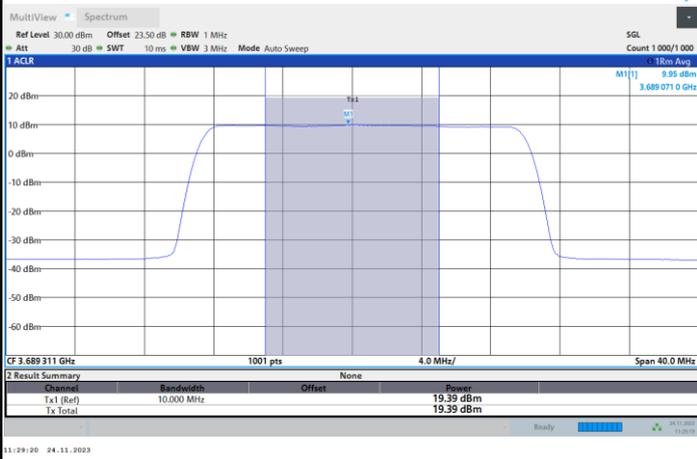
QPSK

16QAM



64QAM

256QAM

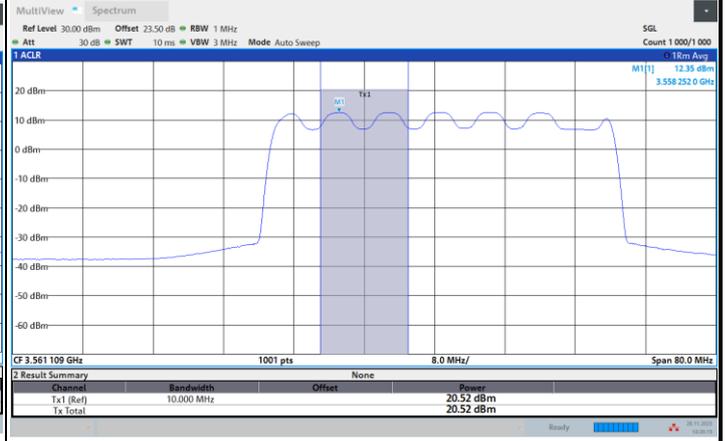
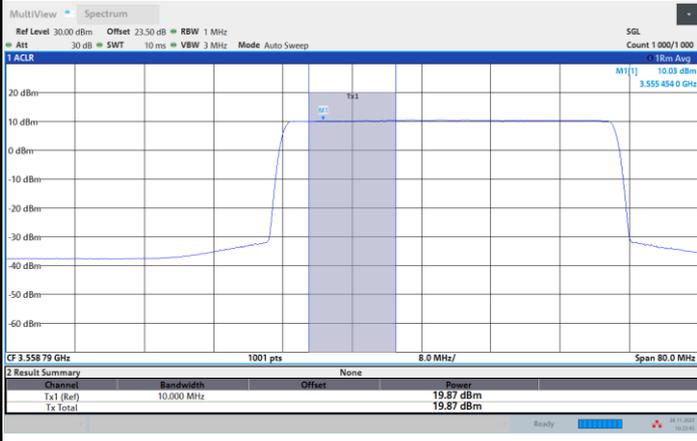




FR1 n48 / 40MHz / Lowest Channel / Conducted (dBm/10MHz)

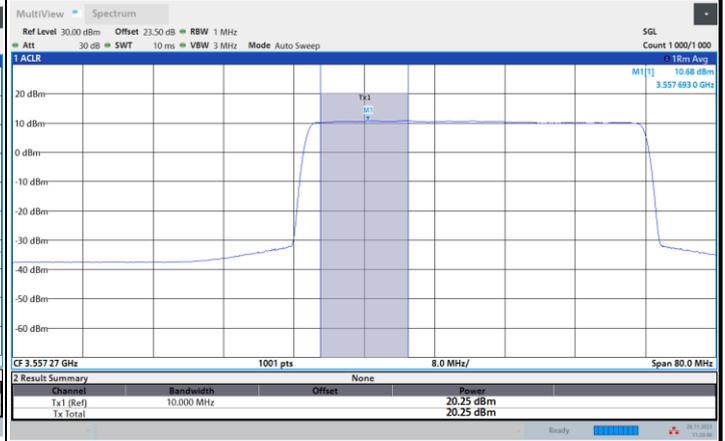
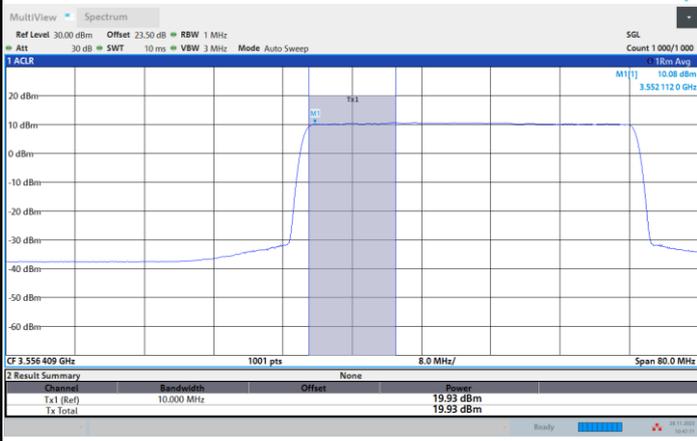
QPSK

16QAM



64QAM

256QAM

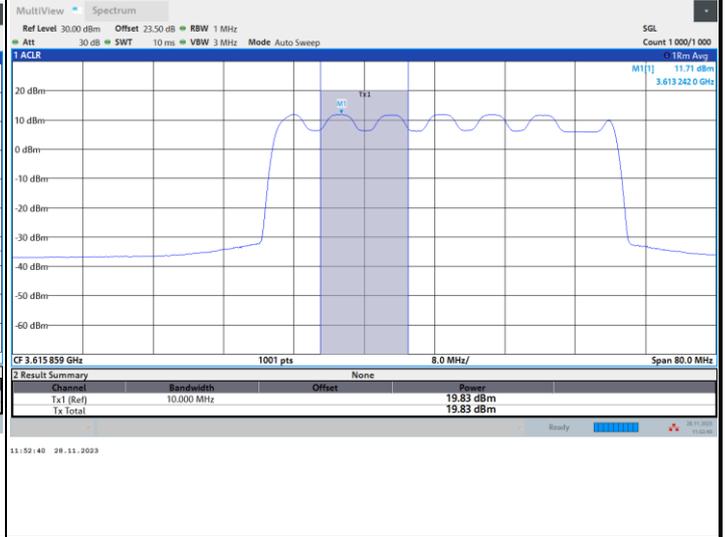
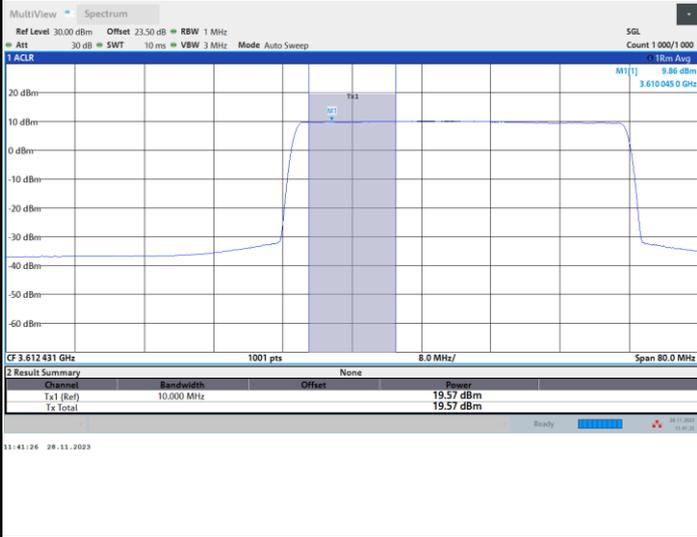




FR1 n48 / 40MHz / Middle Channel / Conducted (dBm/10MHz)

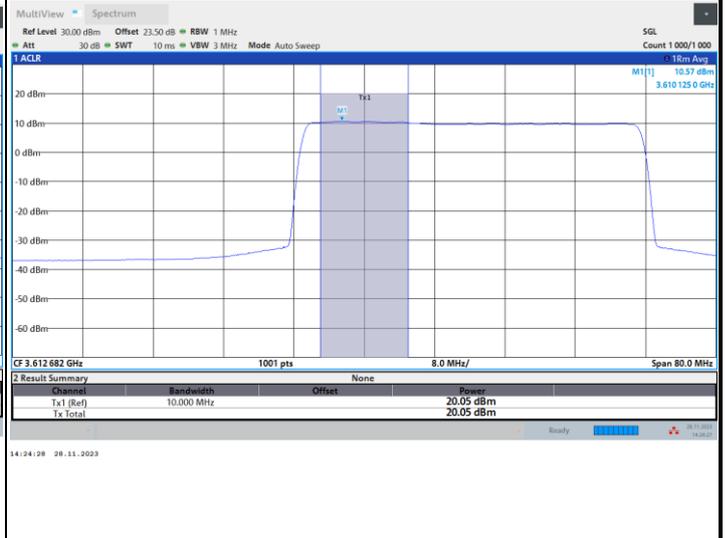
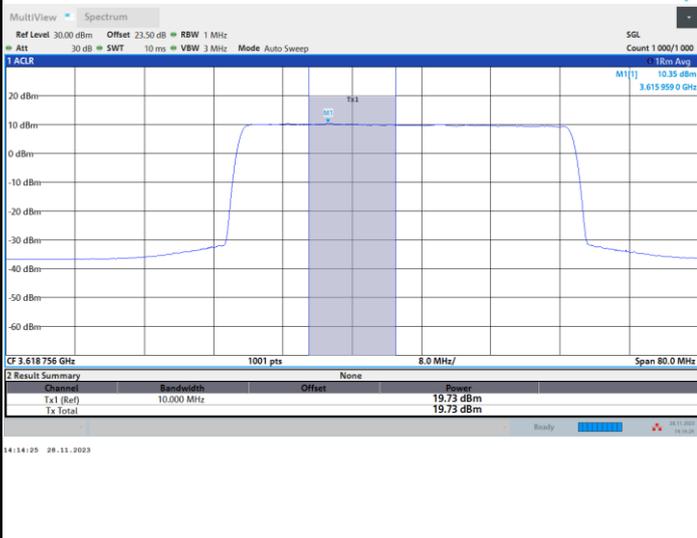
QPSK

16QAM



64QAM

256QAM

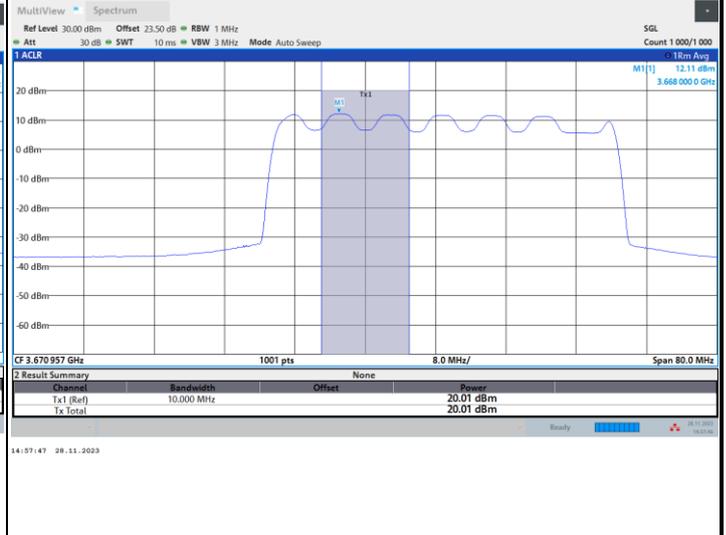
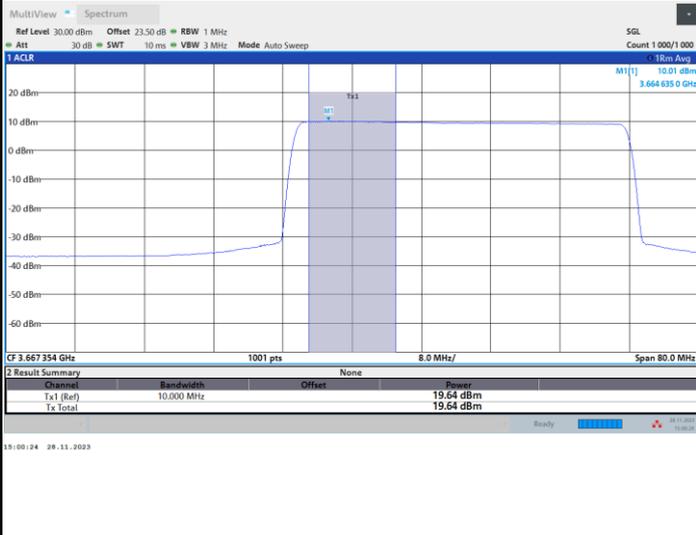




FR1 n48 / 40MHz / Highest Channel / Conducted (dBm/10MHz)

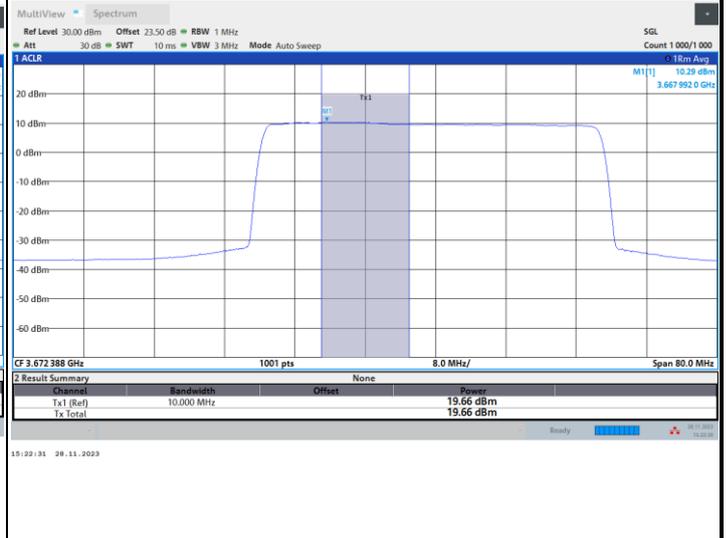
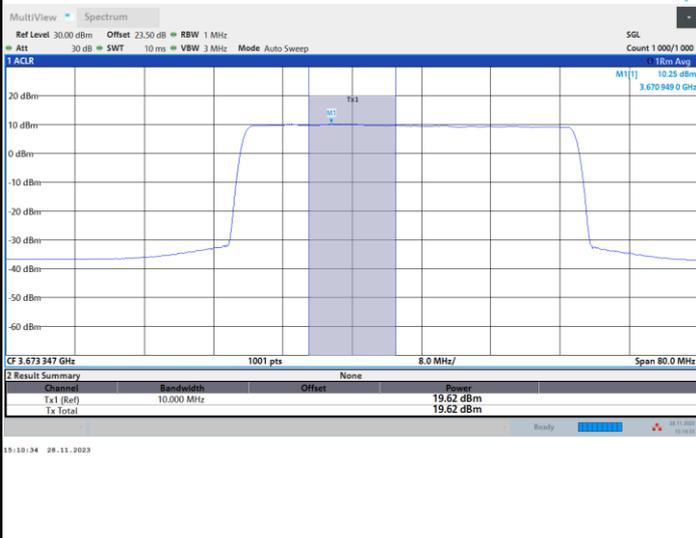
QPSK

16QAM



64QAM

256QAM





**Power Spectral Density**

Mode	FR1 n48 : Conducted PSD (dBm/MHz)						
	<SISO> Lowest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	11.91	12.79	11.13	12.80	10.62	12.74	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Lowest CH	11.89	11.84	10.95	10.92	10.61	10.89	

Mode	FR1 n48 : EIRP PSD (dBm/MHz)						
	<MIMO 4TX> Lowest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	35.43	36.31	34.65	36.32	34.14	36.26	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Lowest CH	35.41	35.36	34.47	34.44	34.13	34.41	
Limit	37dBm/MHz						
Result	PASS						

**Note**

1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted PSD (dBm/MHz)						
	<SISO> Middle Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	11.40	12.38	10.34	11.85	10.05	11.82	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	11.84	11.71	10.27	10.21	10.23	10.30	

Mode	FR1 n48 : EIRP PSD (dBm/MHz)						
	<MIMO 4TX> Middle Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	35.43	36.31	34.65	36.32	34.14	36.26	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	35.41	35.36	34.47	34.44	34.13	34.41	
Limit	37dBm/MHz						
Result	PASS						

Note

1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted PSD (dBm/MHz)						
	<SISO> Highest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Highest CH	11.09	12.16	9.86	11.54	9.85	11.95	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Highest CH	11.31	11.25	9.96	9.92	10.00	10.06	

Mode	FR1 n48 : EIRP PSD (dBm/MHz)						
	<MIMO 4TX> Highest Channel						
BW	10MHz		20MHz		40MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Highest CH	34.61	35.68	33.38	35.06	33.37	35.47	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Highest CH	34.83	34.77	33.48	33.44	33.52	33.58	
Limit	37dBm/MHz						
Result	PASS						

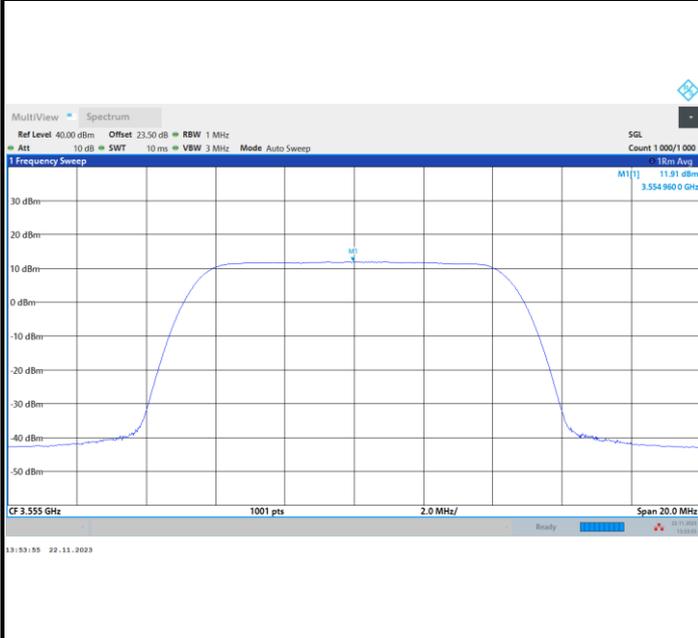
Note

1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.

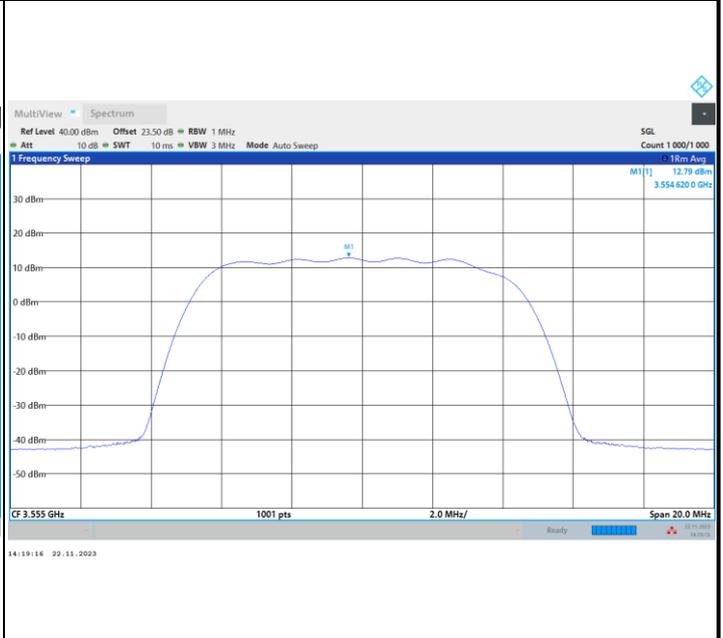


FR1 n48 / 10MHz / Lowest Channel / PSD

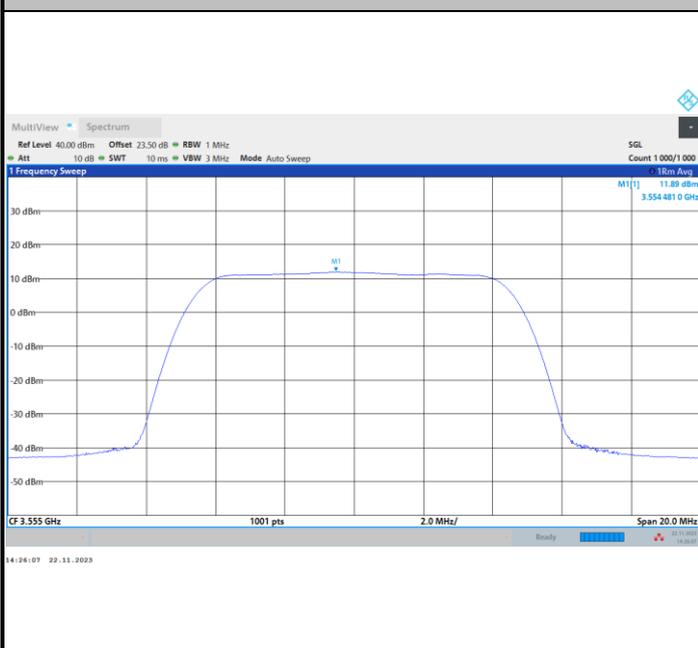
QPSK



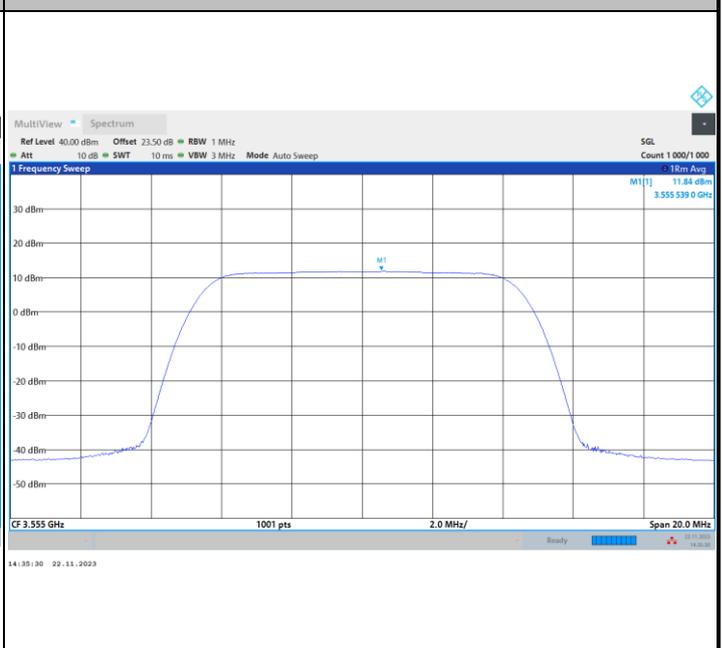
16QAM



64QAM



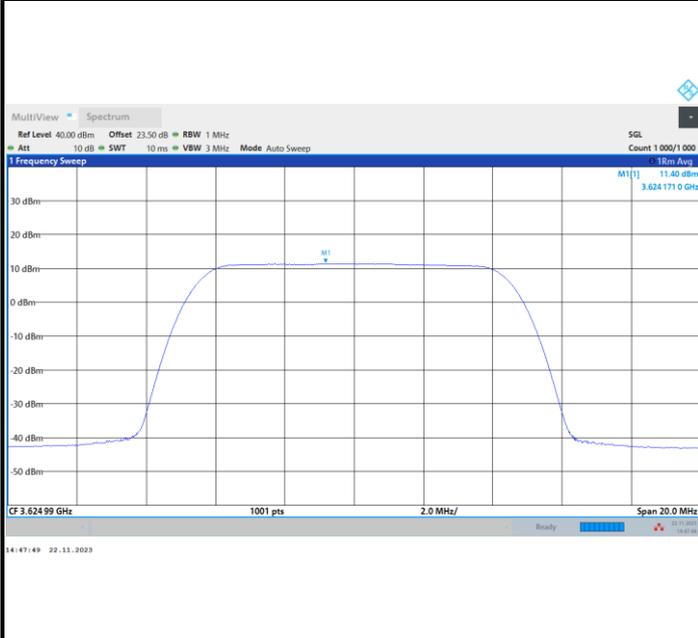
256QAM



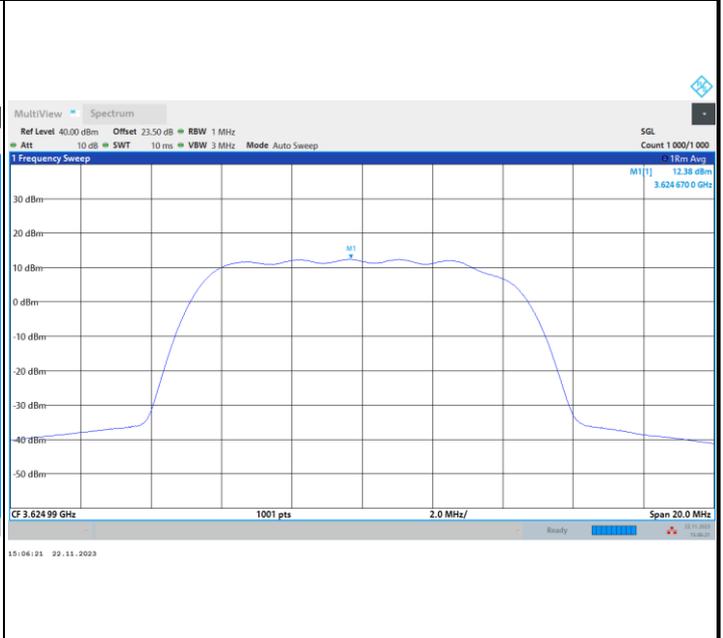


FR1 n48 / 10MHz / Middle Channel / PSD

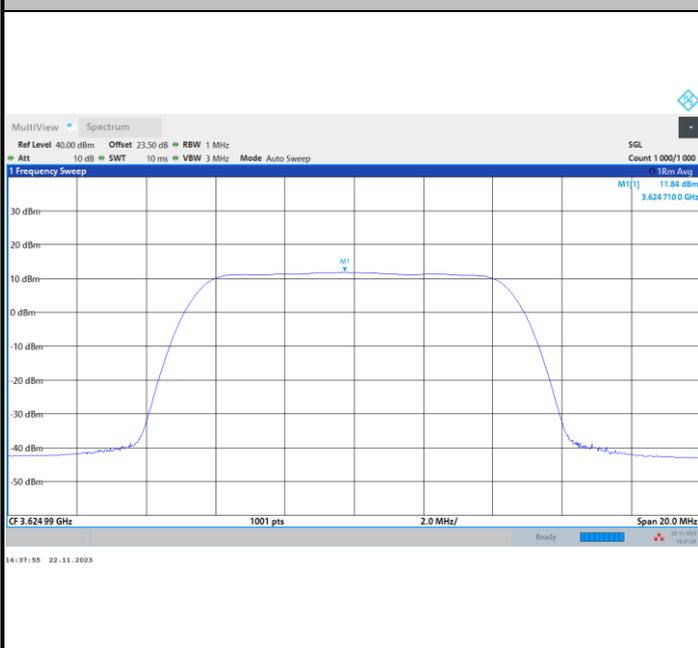
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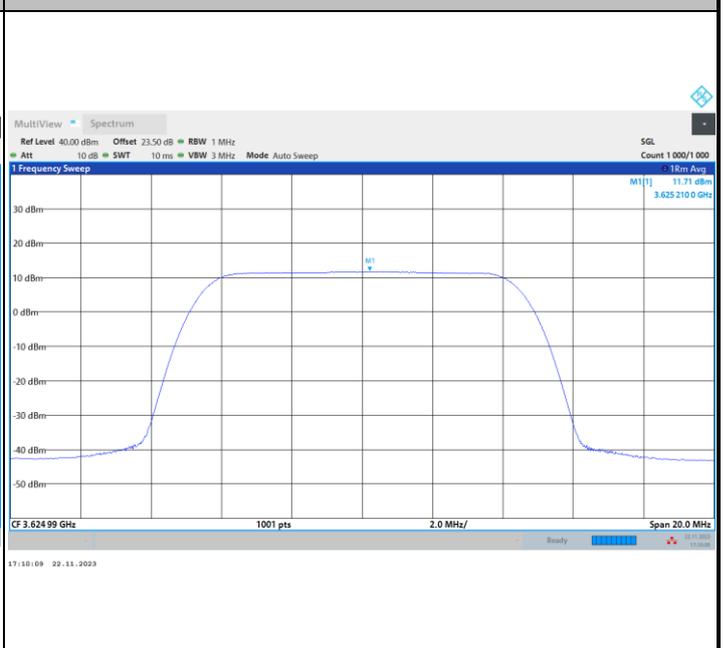
16QAM



64QAM



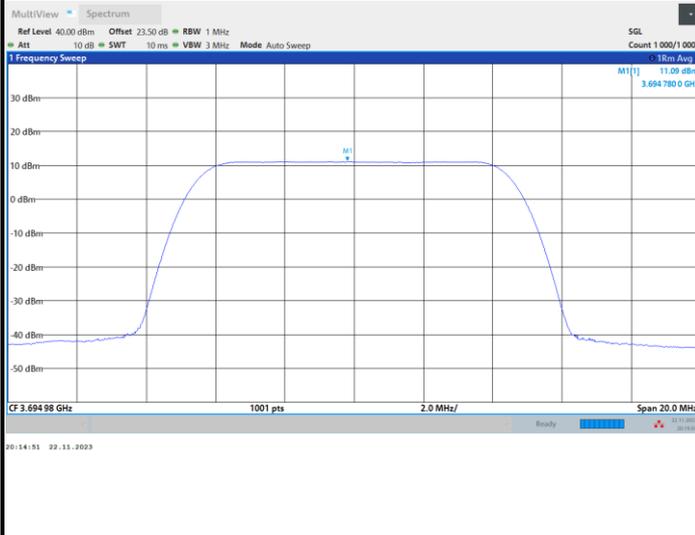
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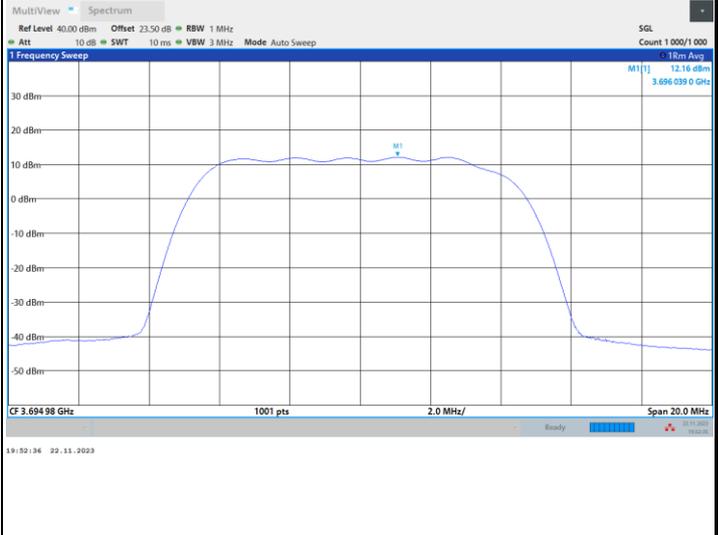


FR1 n48 / 10MHz / Highest Channel / PSD

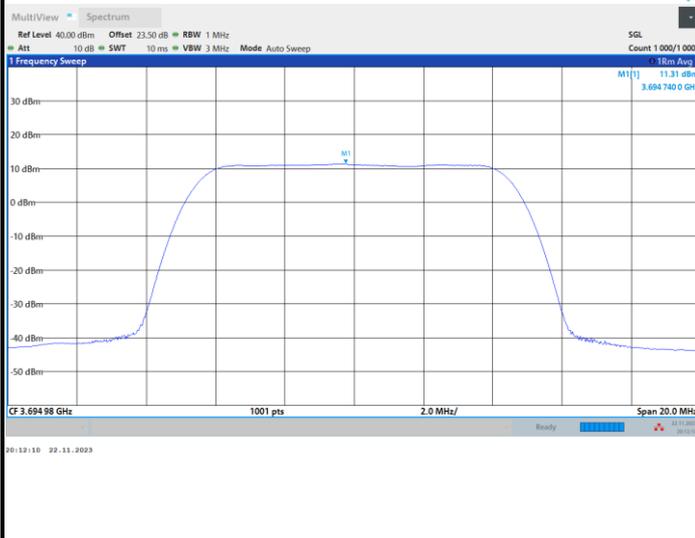
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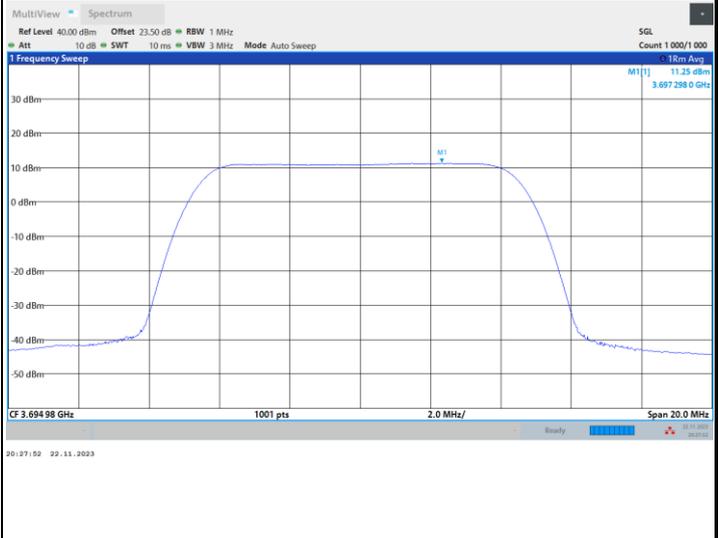
16QAM



64QAM



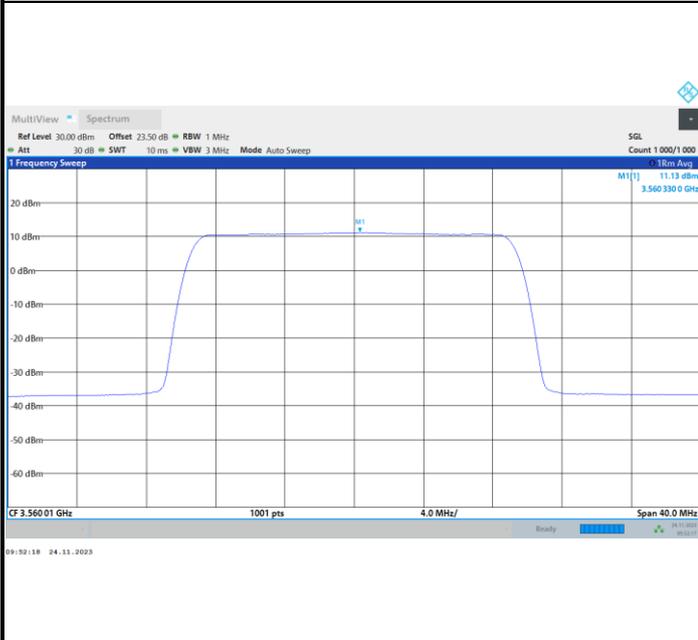
256QAM



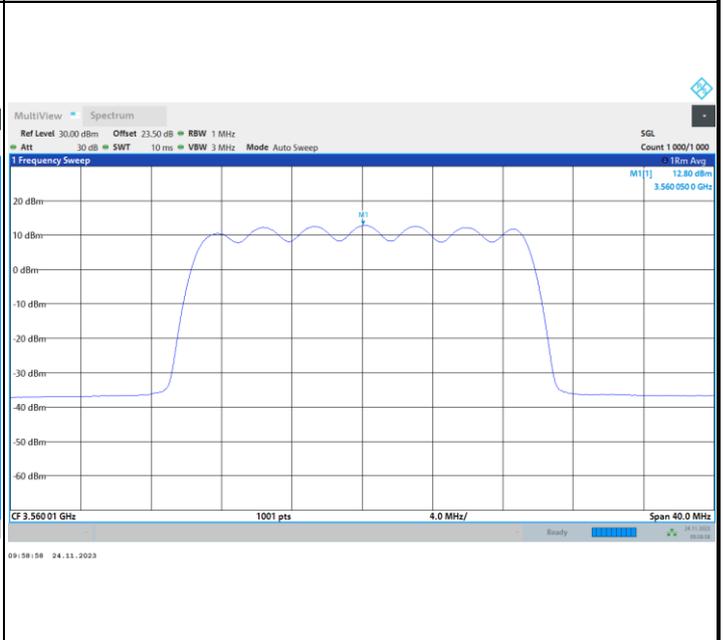


FR1 n48 / 20MHz / Lowest Channel / PSD

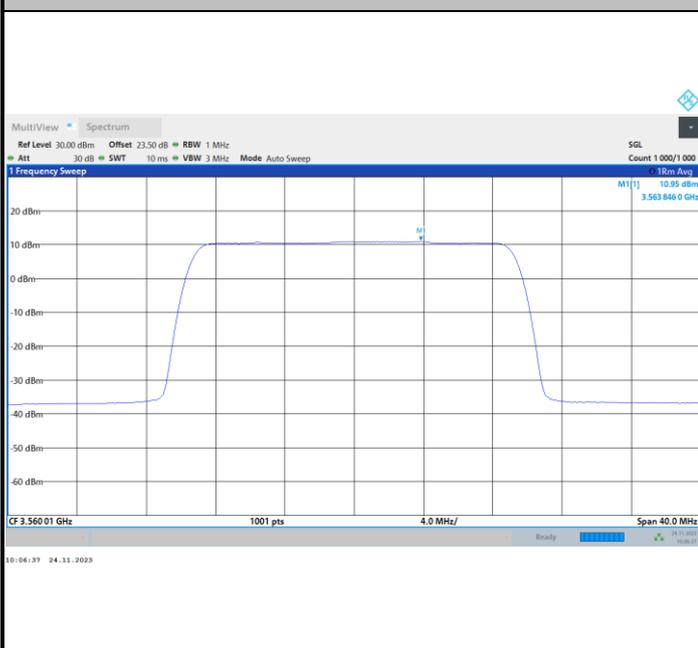
QPSK



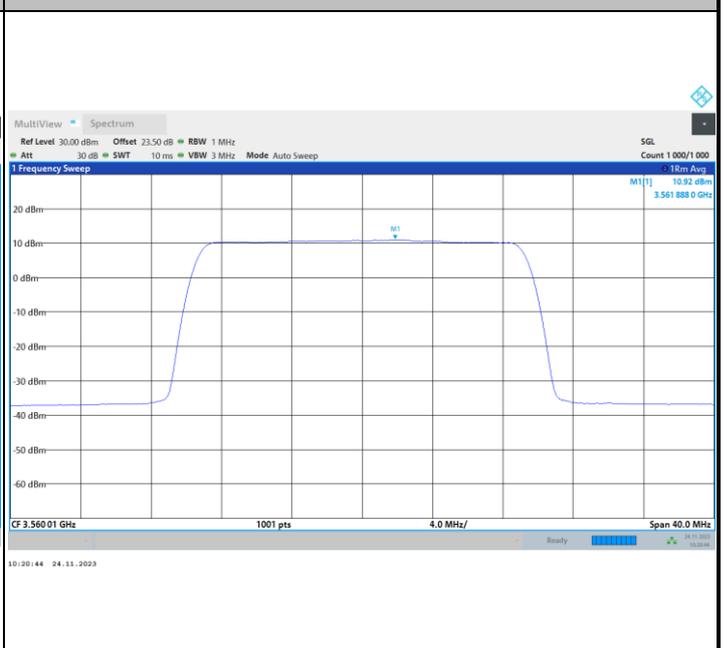
16QAM



64QAM



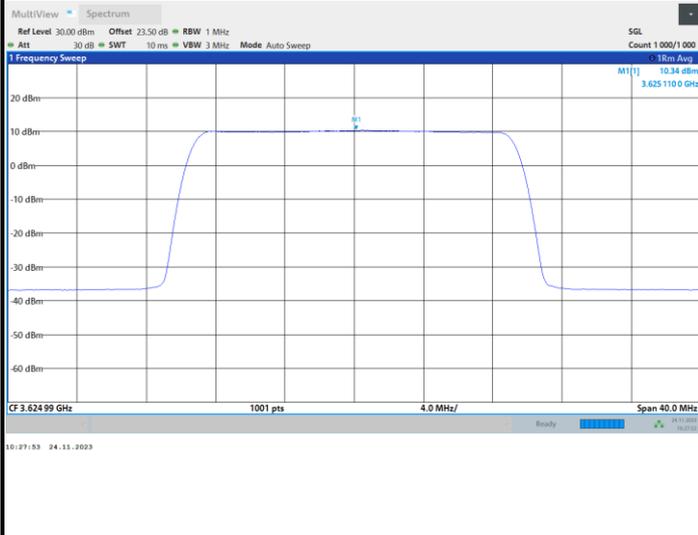
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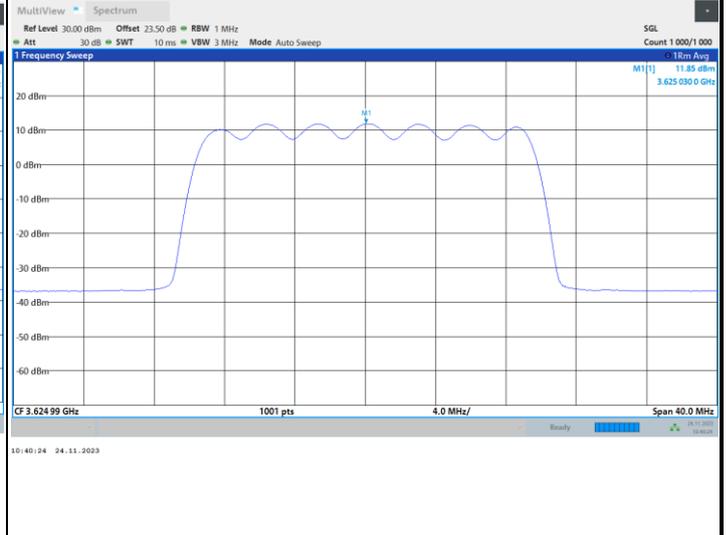


FR1 n48 / 20MHz / Middle Channel / PSD

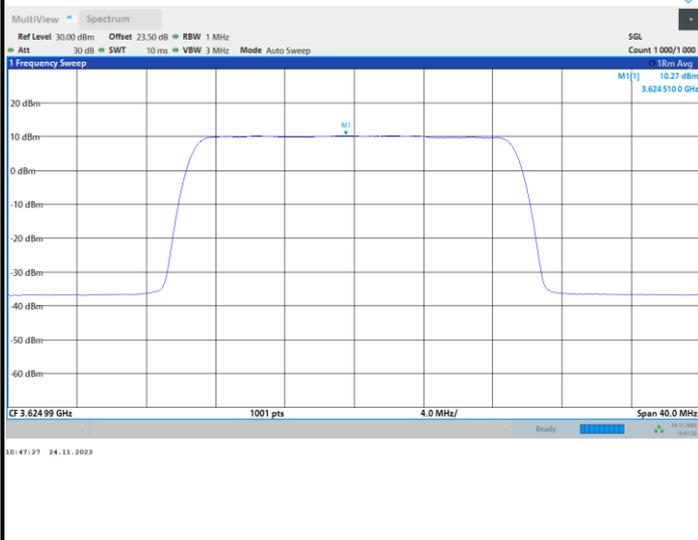
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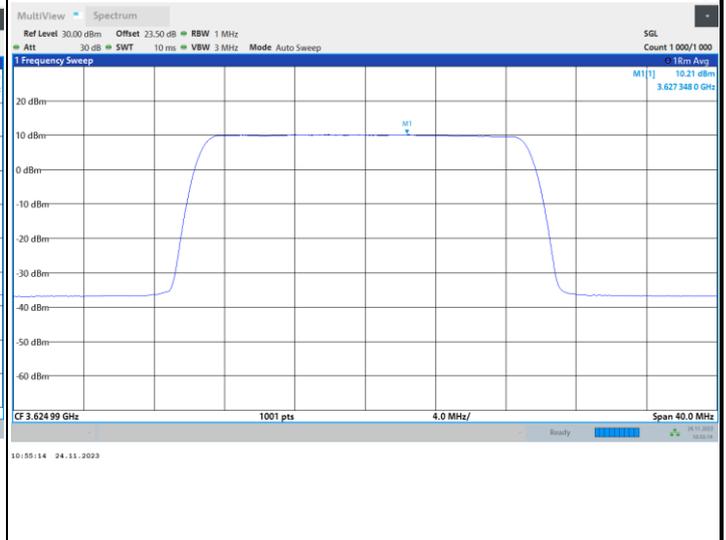
16QAM



64QAM



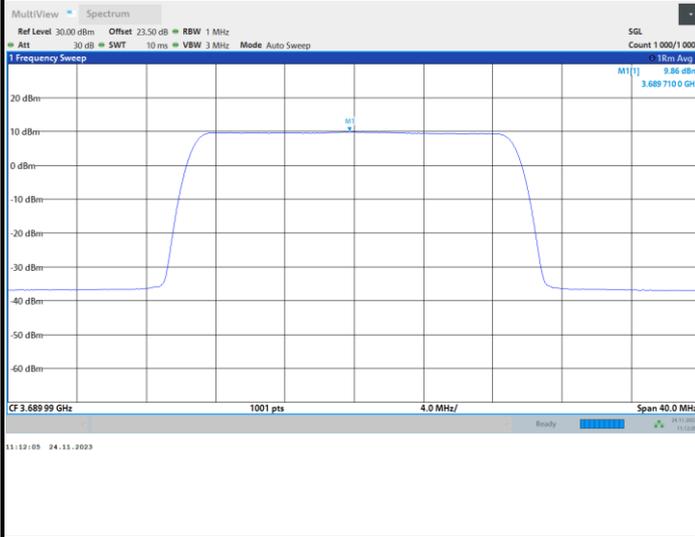
256QAM



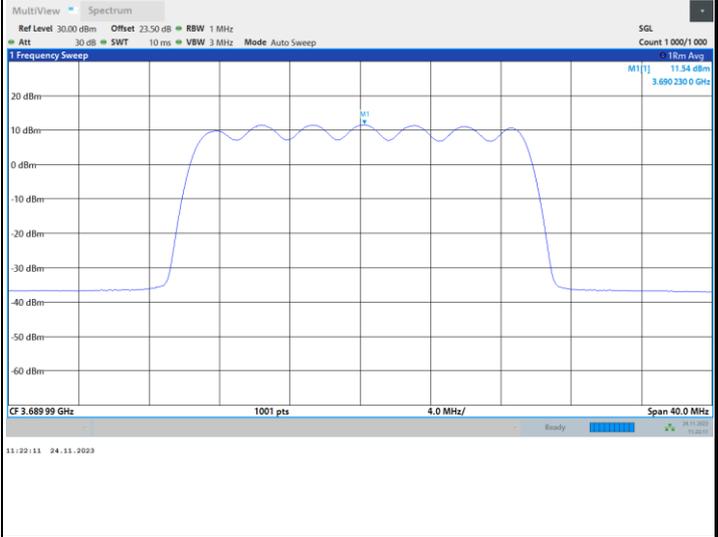


FR1 n48 / 20MHz / Highest Channel / PSD

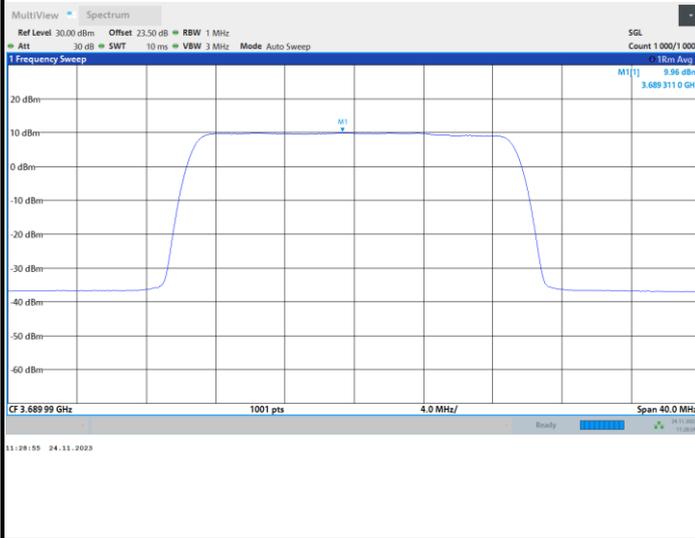
QPSK



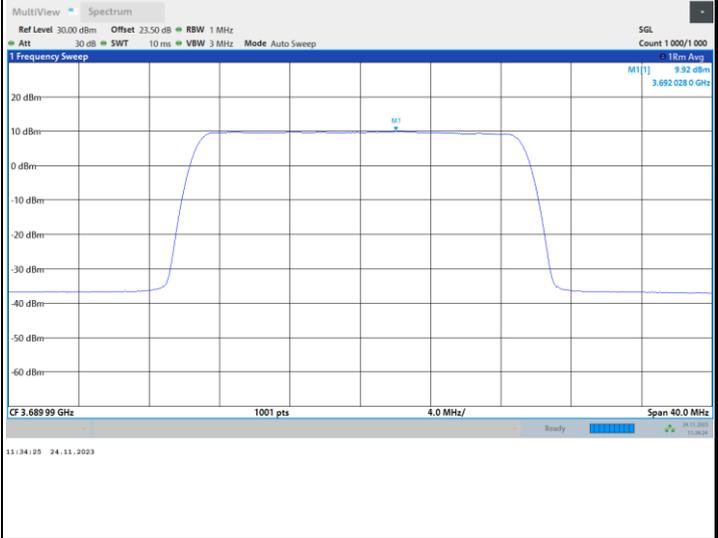
16QAM



64QAM



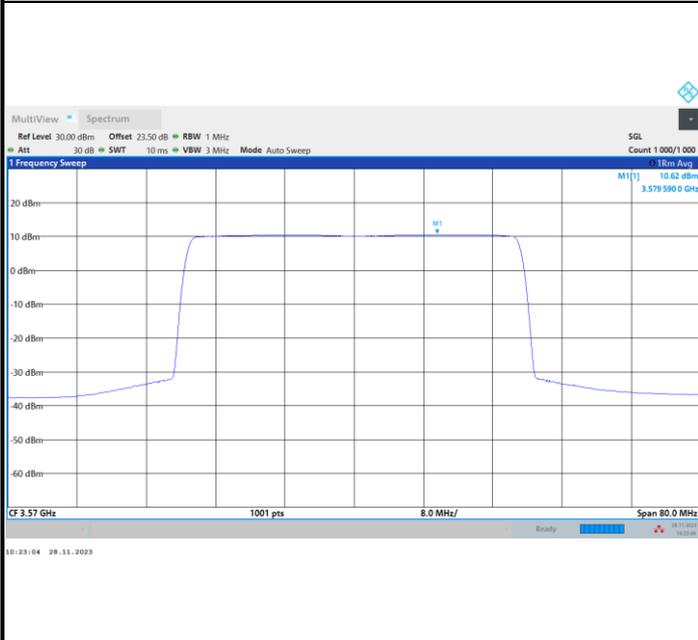
256QAM



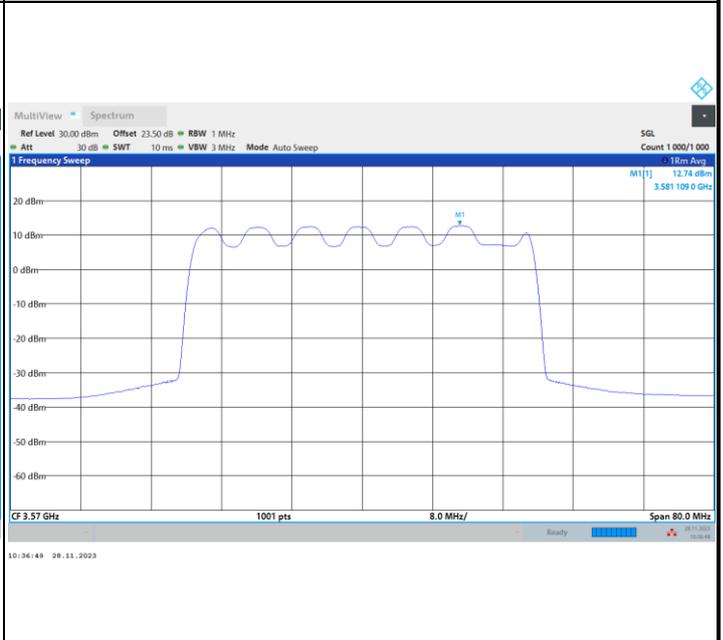


FR1 n48 / 40MHz / Lowest Channel / PSD

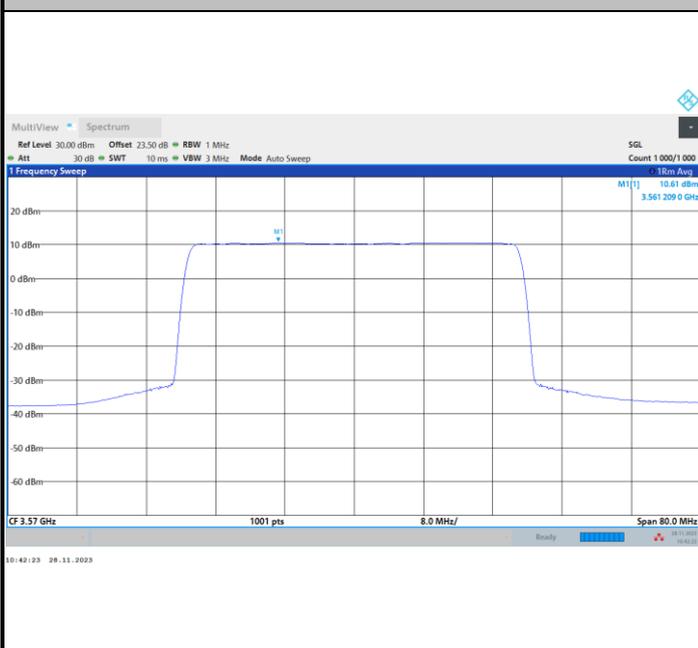
QPSK



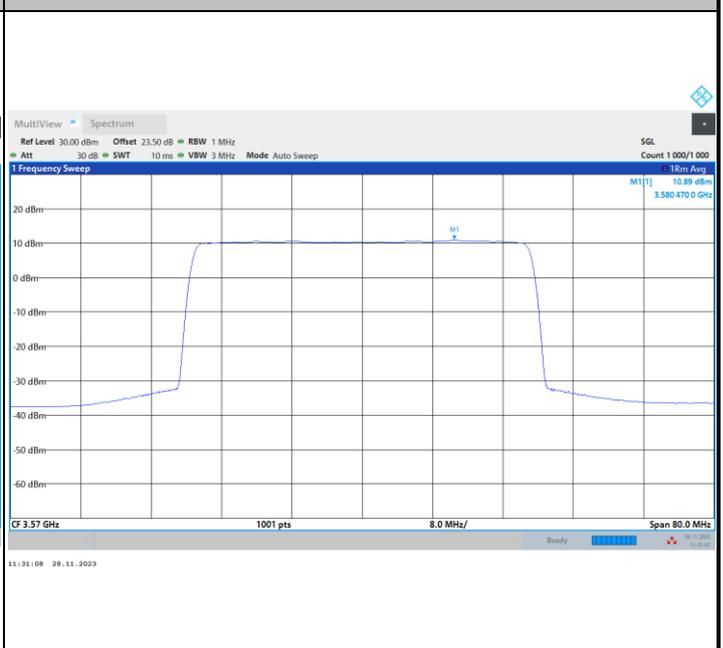
16QAM



64QAM



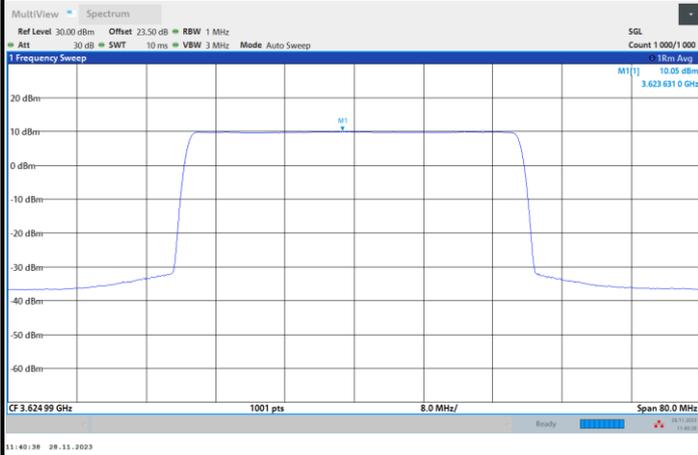
256QAM



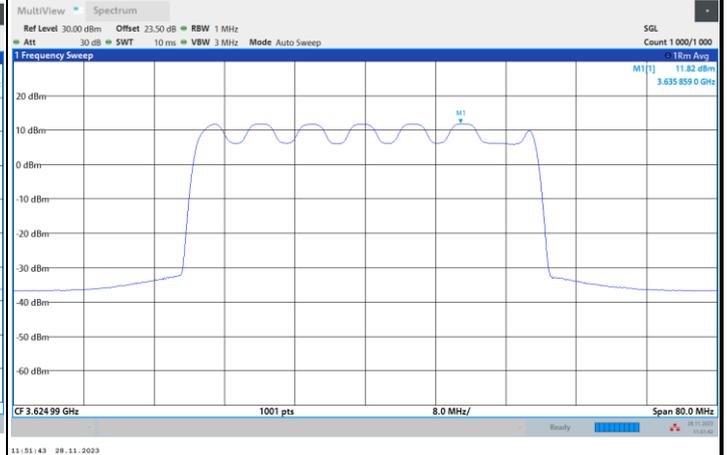


FR1 n48 / 40MHz / Middle Channel / PSD

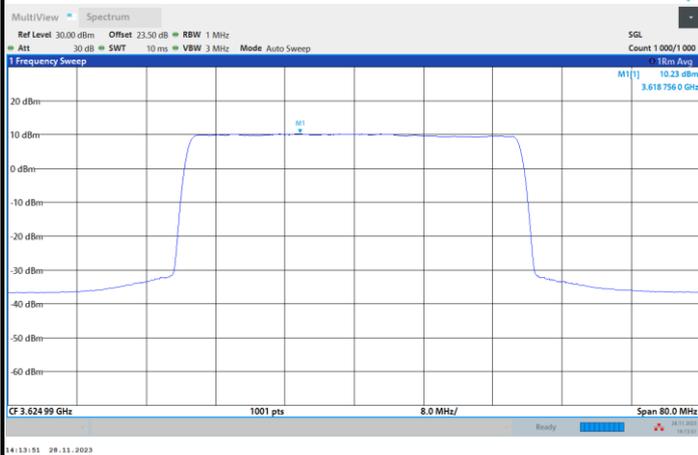
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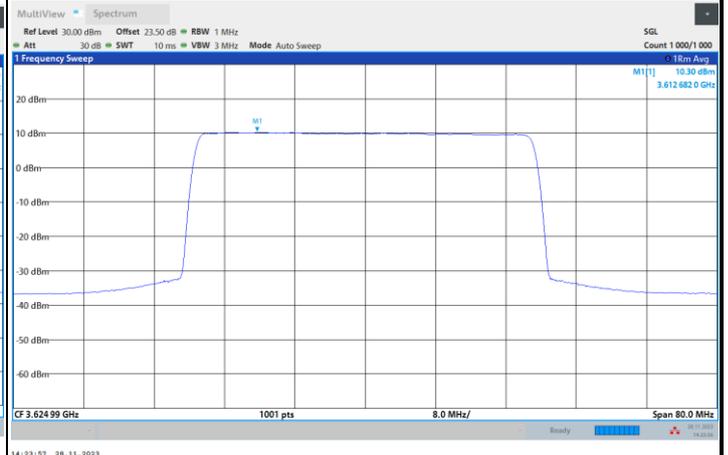
16QAM



64QAM



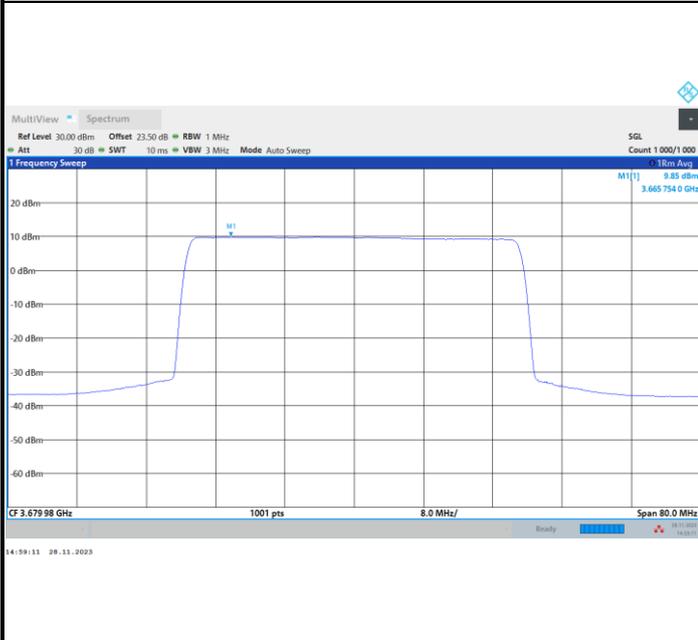
256QAM



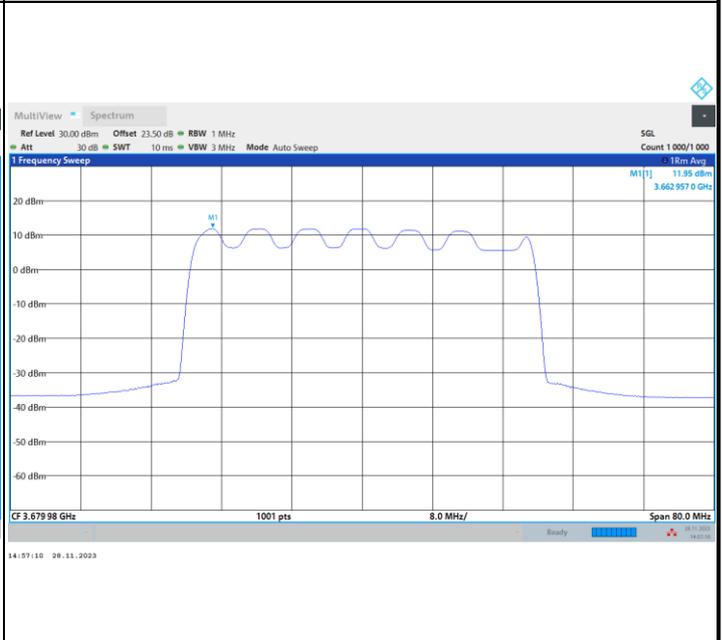


FR1 n48 / 40MHz / Highest Channel / PSD

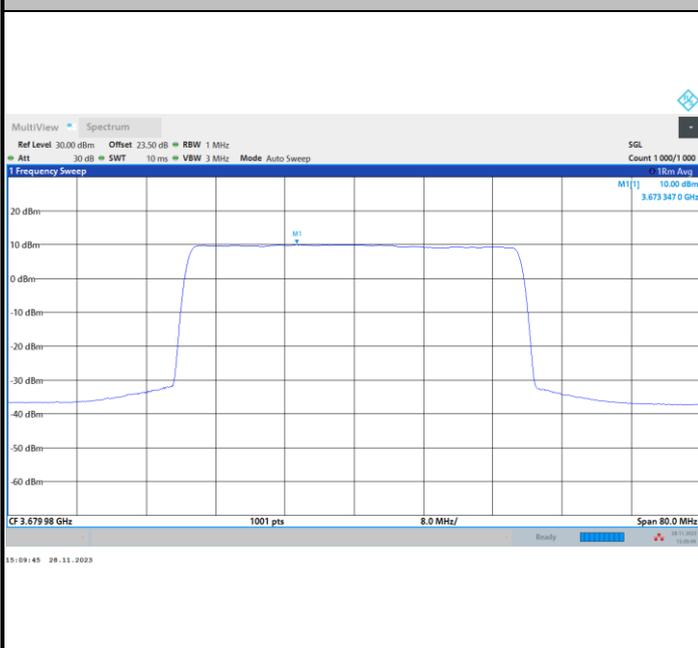
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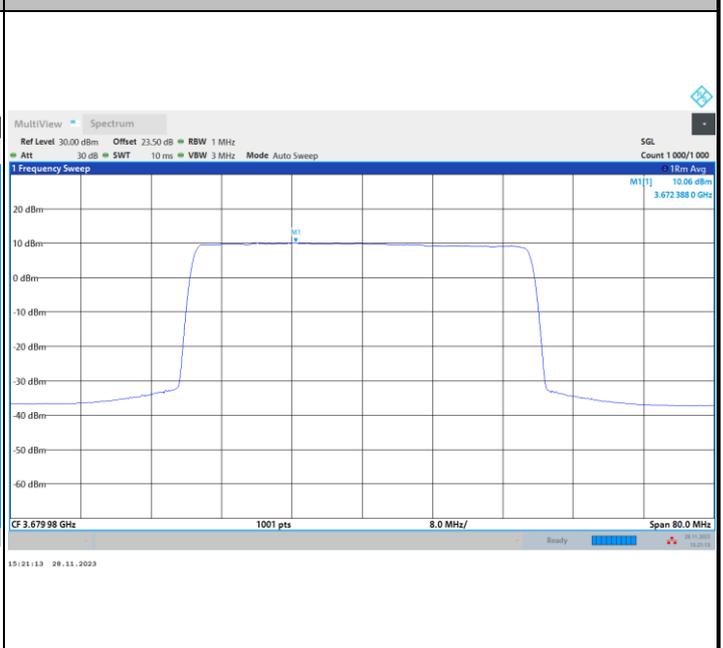
16QAM



64QAM



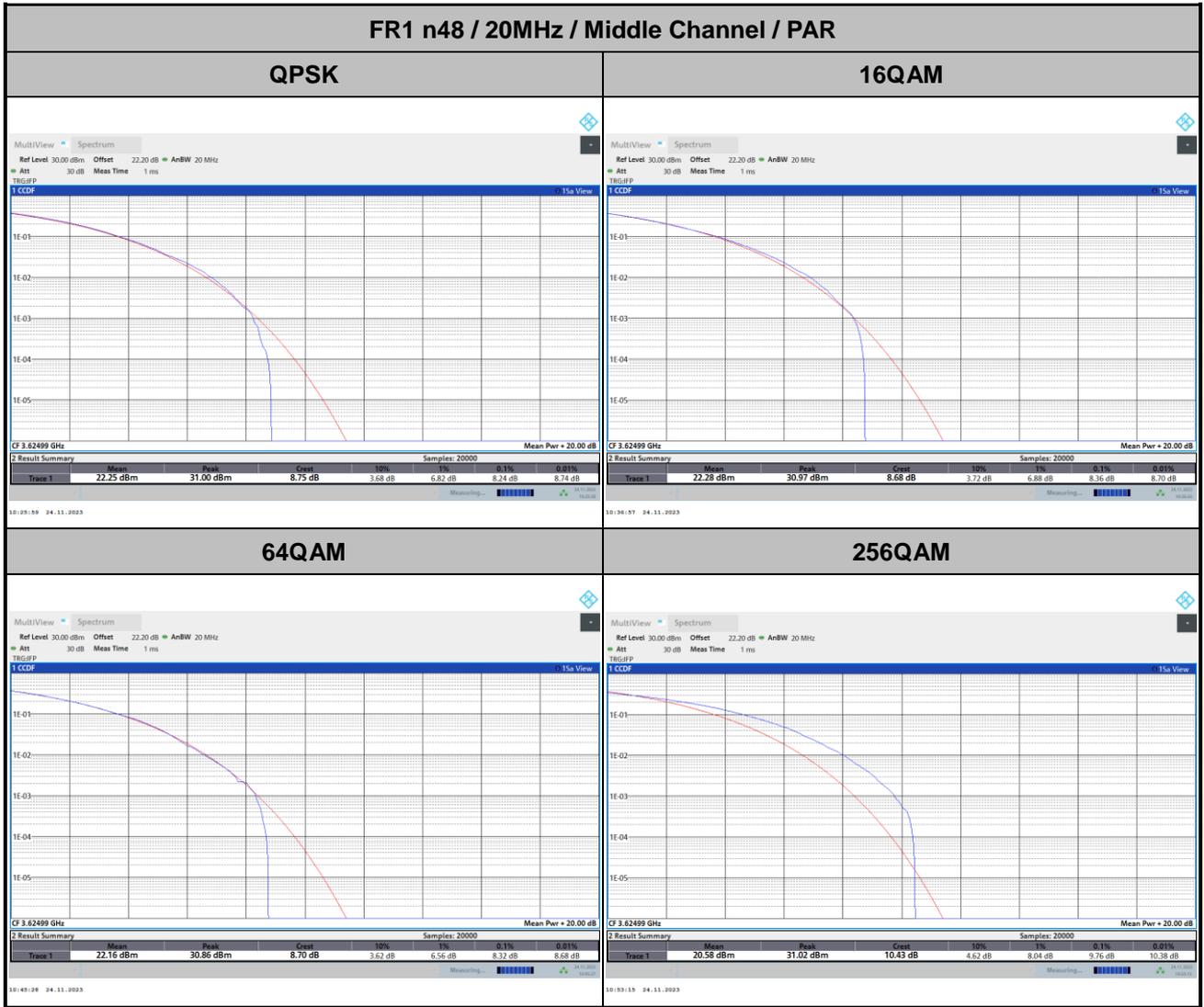
256QAM





# Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / PAR (dB)				Limit: 13dB
Mod.	QPSK	16QAM	64QAM	256QAM	Result
Middle CH	8.24	8.36	8.32	9.76	PASS





**26dB Bandwidth**

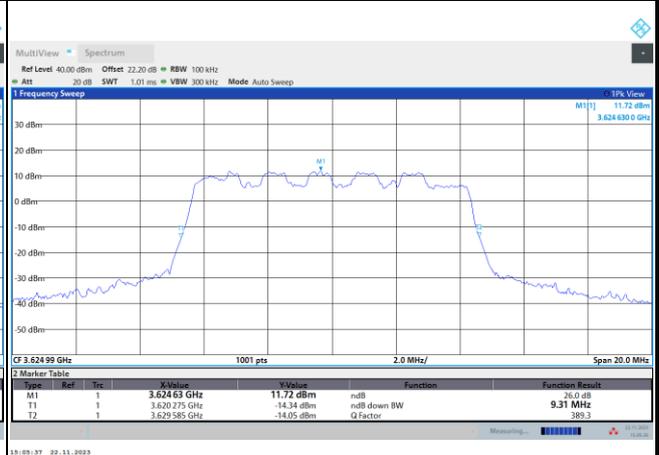
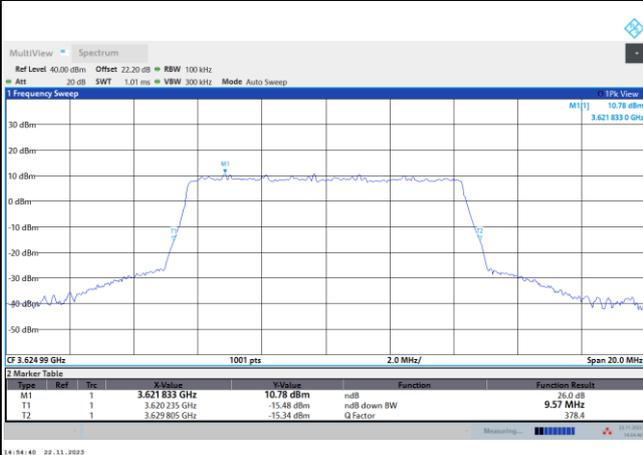
Mode	FR1 n48 : 26dB BW(MHz)							
BW	10MHz		20MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	9.57	9.31	19.54	19.46	40.76	40.44		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	9.41	9.41	19.58	19.54	40.52	40.52		



FR1 n48 / 10MHz / Middle Channel / 26dB BW

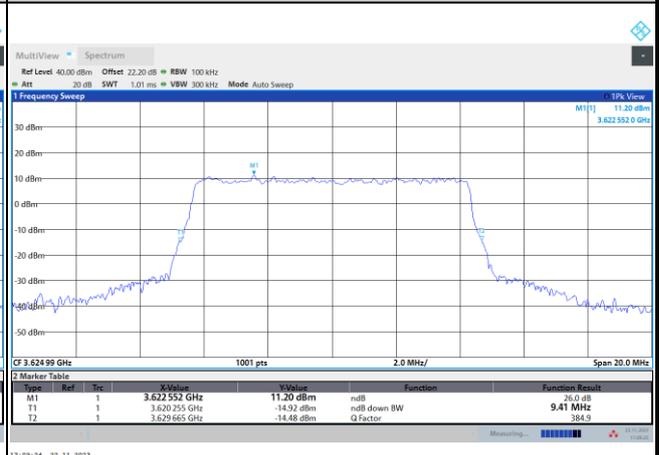
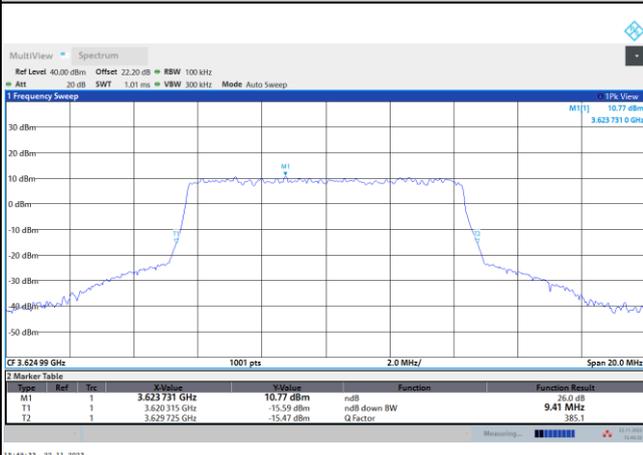
QPSK

16QAM



64QAM

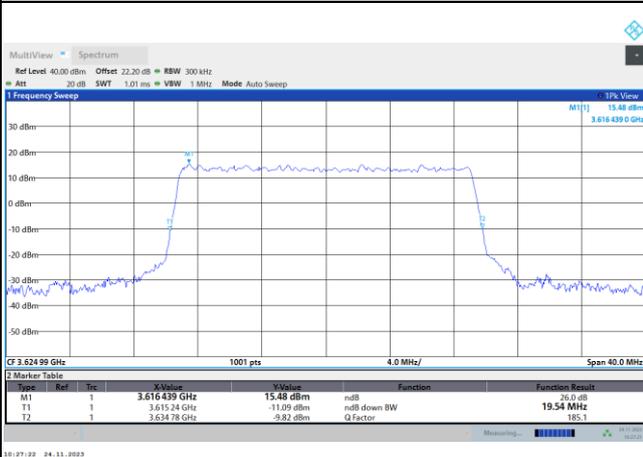
256QAM



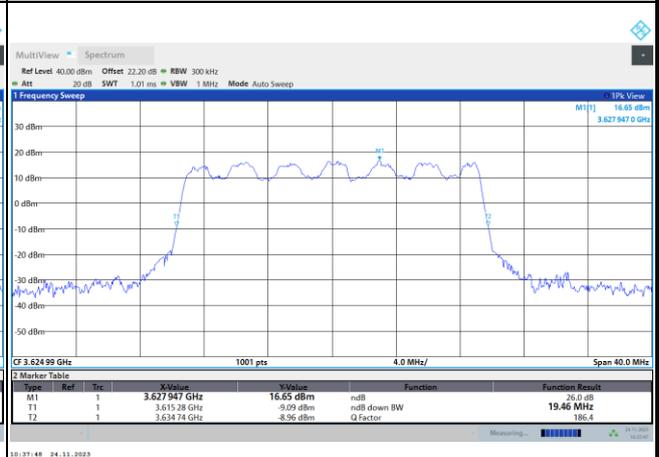


FR1 n48 / 20MHz / Middle Channel / 26dB BW

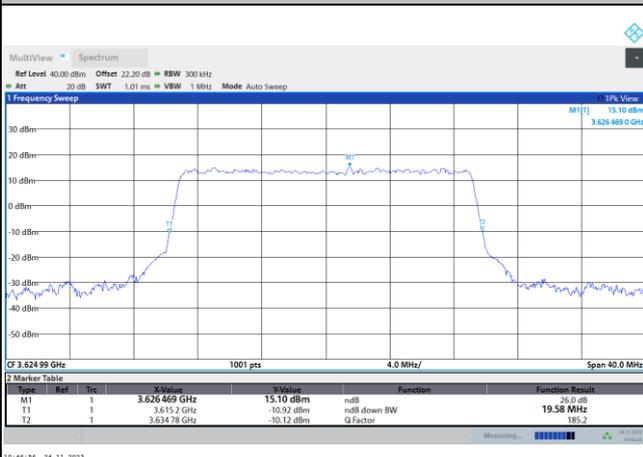
QPSK



16QAM



64QAM



256QAM

