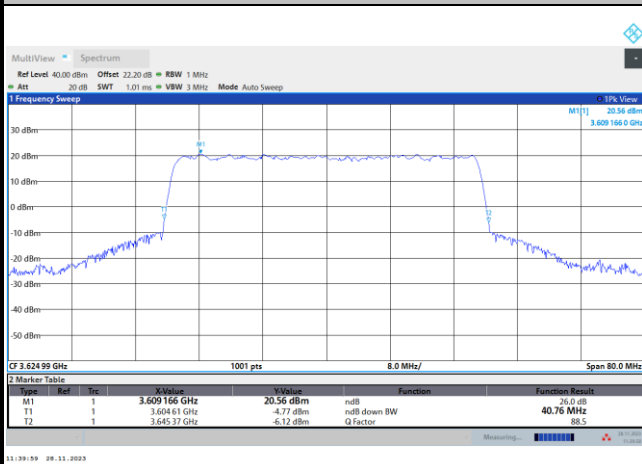


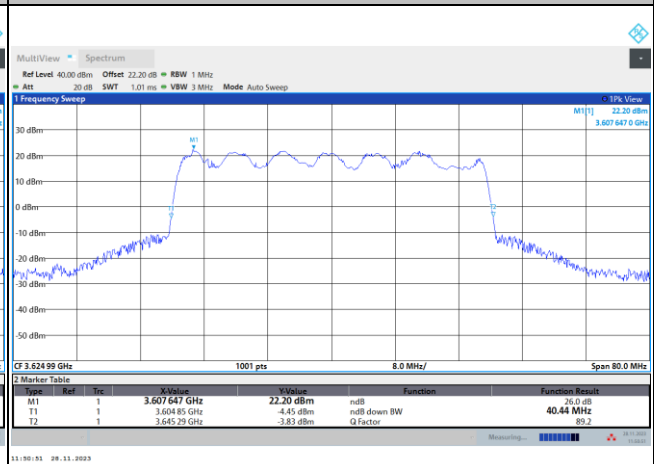


FR1 n48 / 40MHz / Middle Channel / 26dB BW

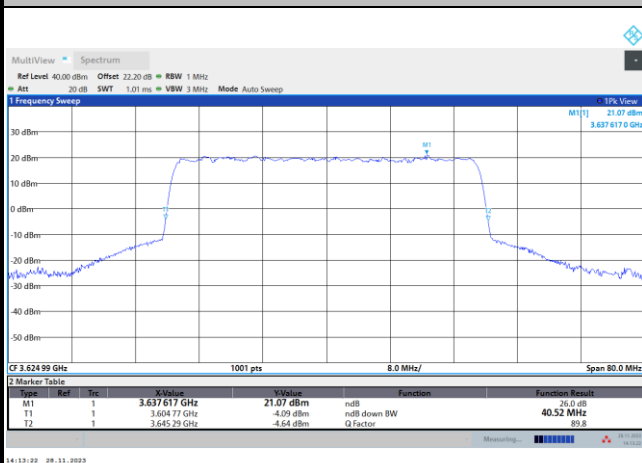
QPSK



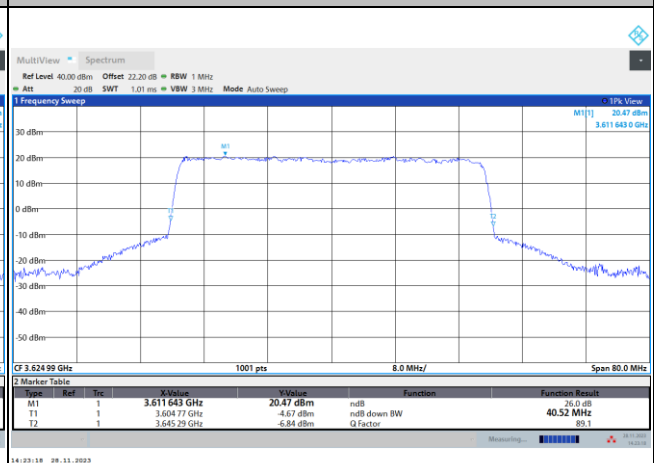
16QAM



64QAM



256QAM





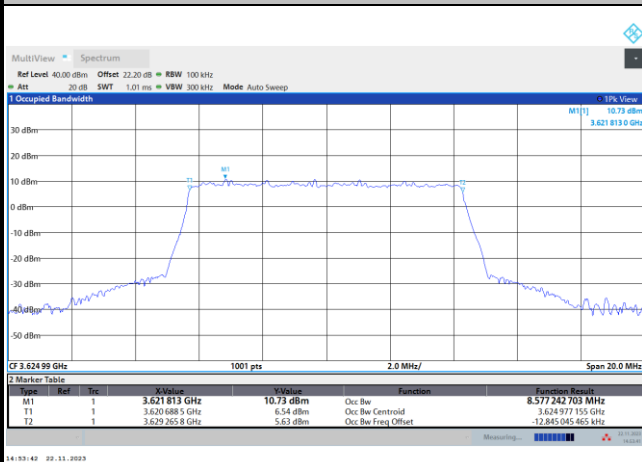
Occupied Bandwidth

Mode	FR1 n48 : 99%OBW (MHz)							
BW	10MHz		20MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	8.57	8.50	18.20	18.25	38.07	38.10		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	8.55	8.54	18.19	18.19	37.98	38.08		

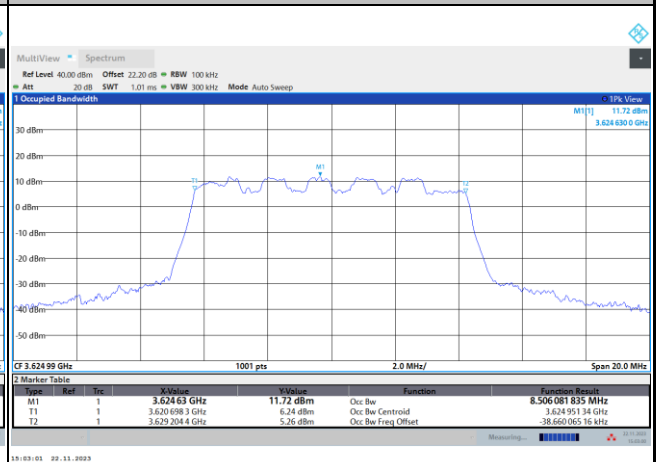


FR1 n48 / 10MHz / Middle Channel / 99%OBW

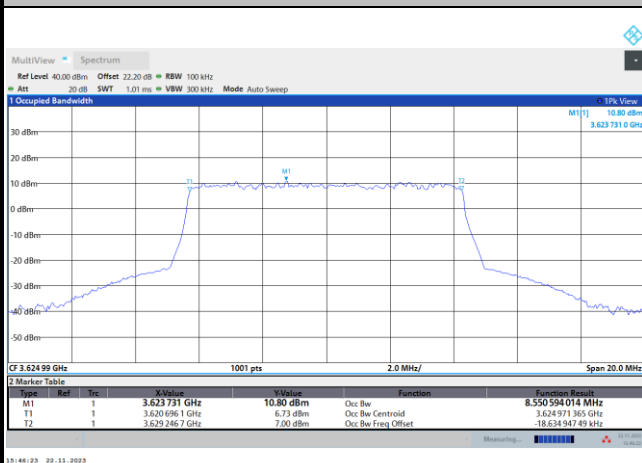
QPSK



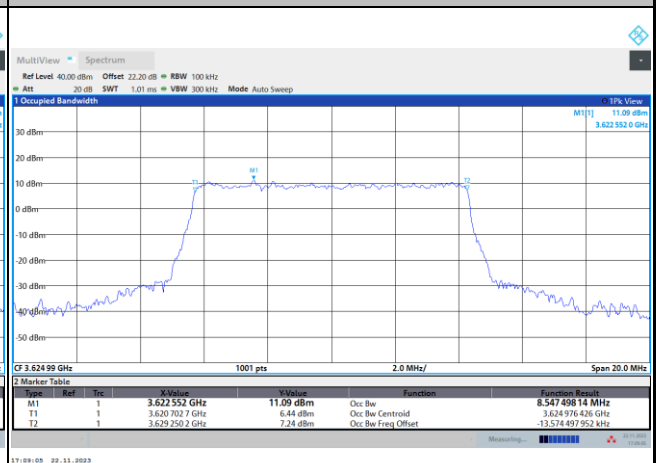
16QAM



64QAM



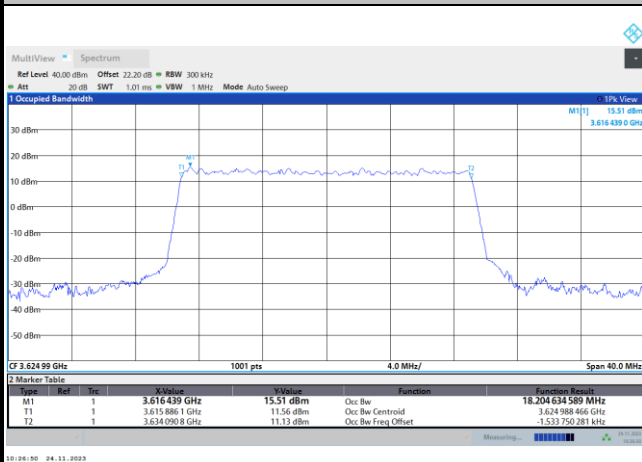
256QAM



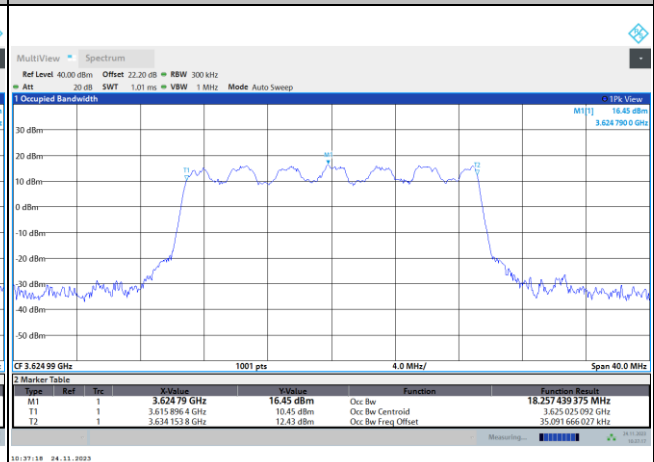


FR1 n48 / 20MHz / Middle Channel / 99%OBW

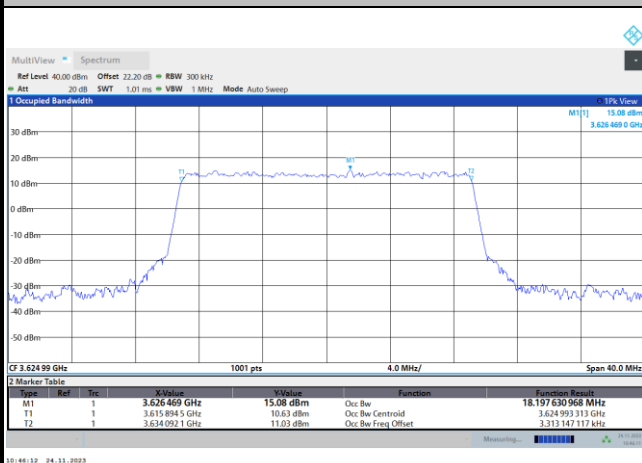
QPSK



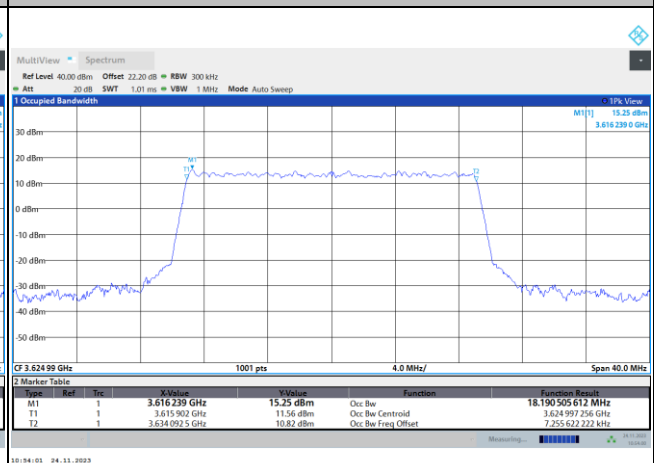
16QAM



64QAM



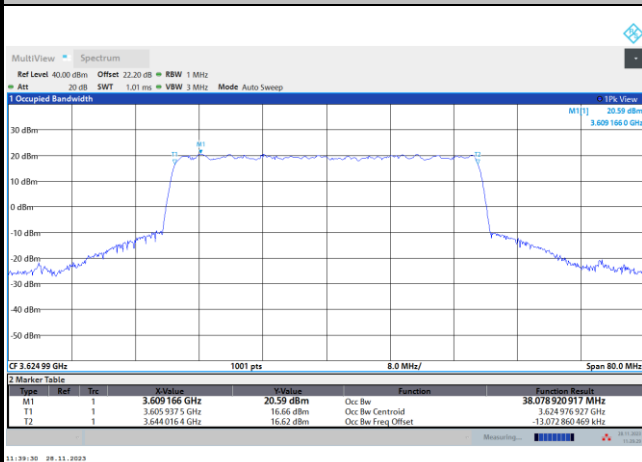
256QAM



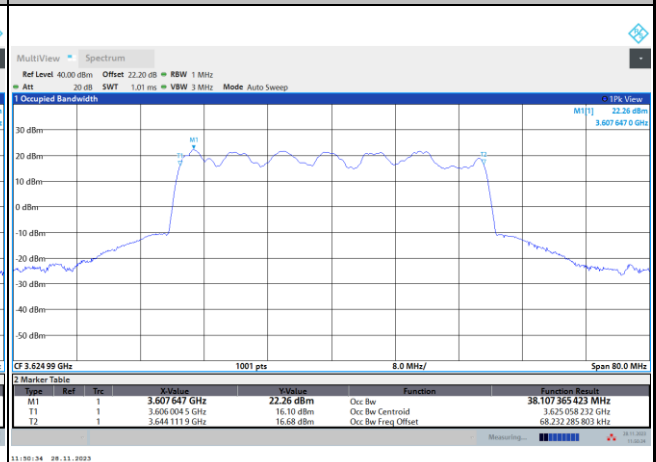


FR1 n48 / 40MHz / Middle Channel / 99%OBW

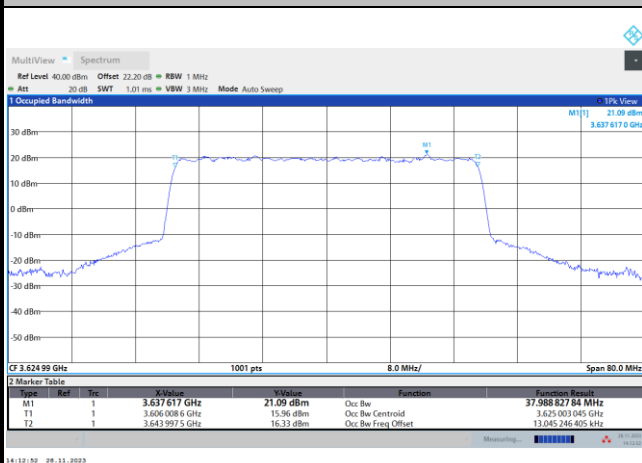
QPSK



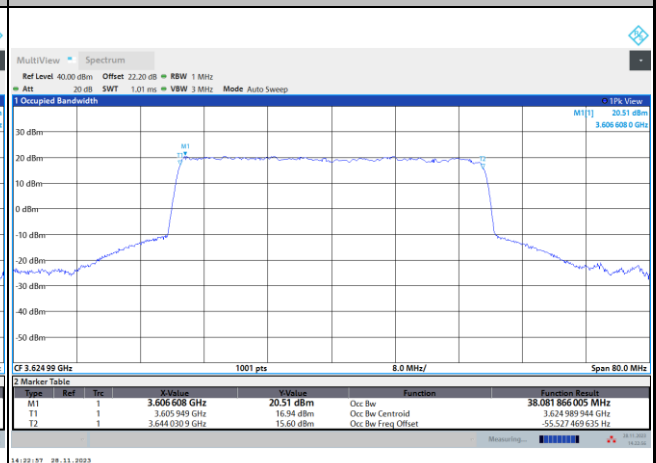
16QAM



64QAM



256QAM

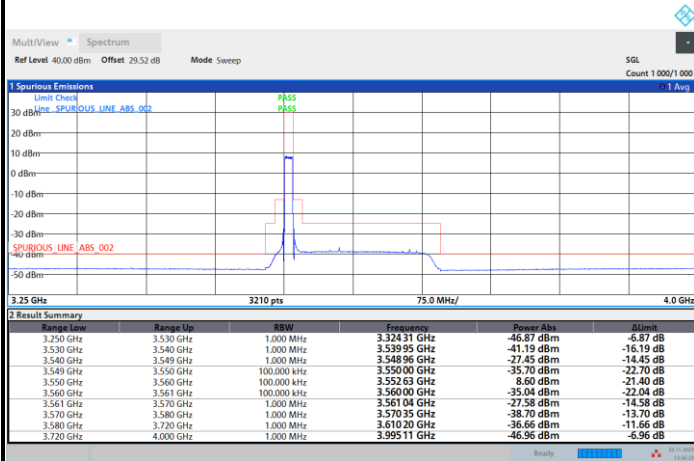




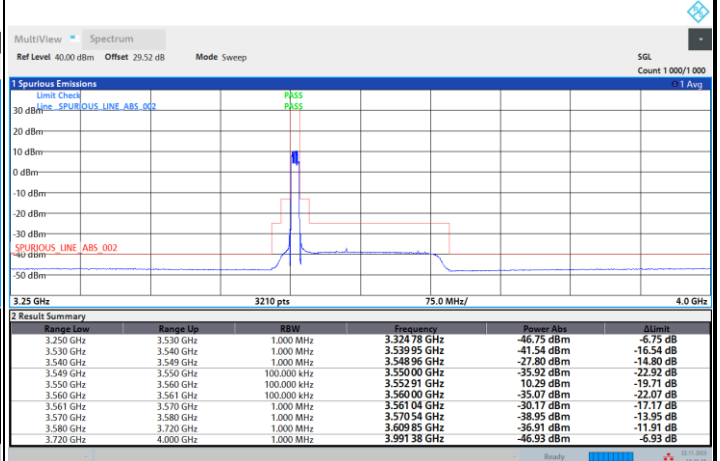
Unwanted Emission (MASK)

FR1 n48 / 10MHz / Lowest Channel / MASK

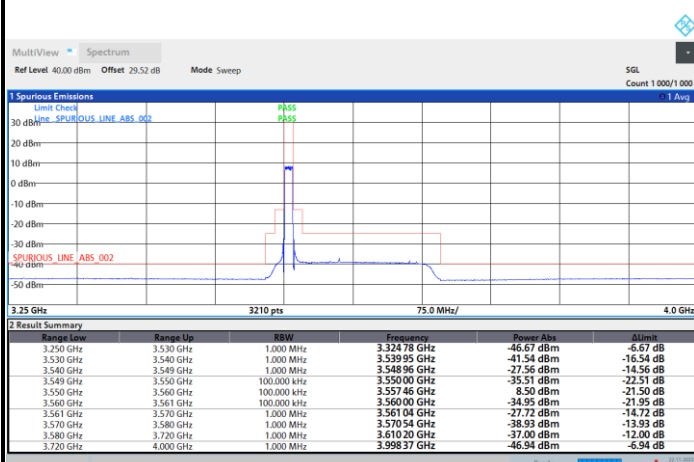
QPSK



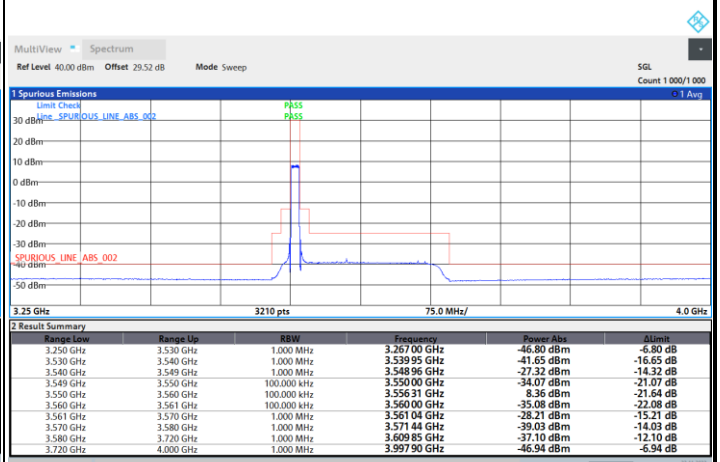
16QAM



64QAM



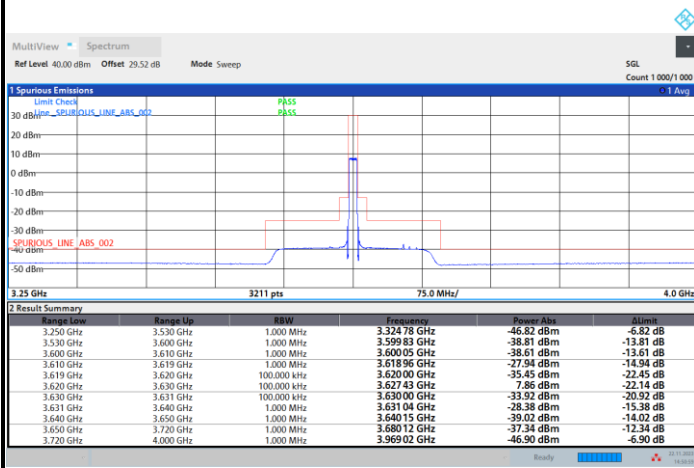
256QAM



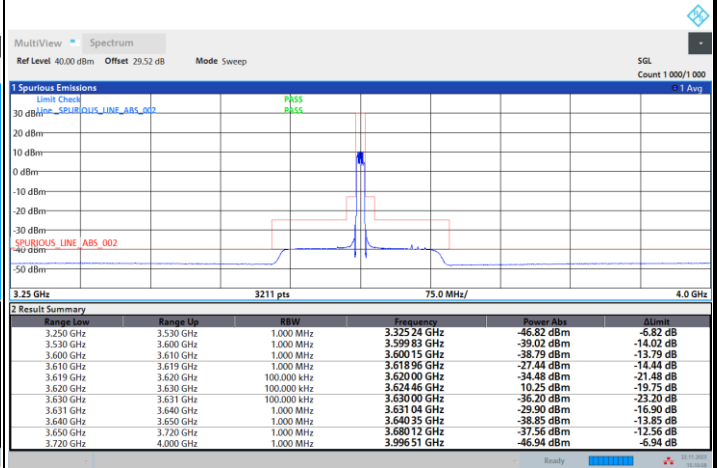


FR1 n48 / 10MHz / Middle Channel / MASK

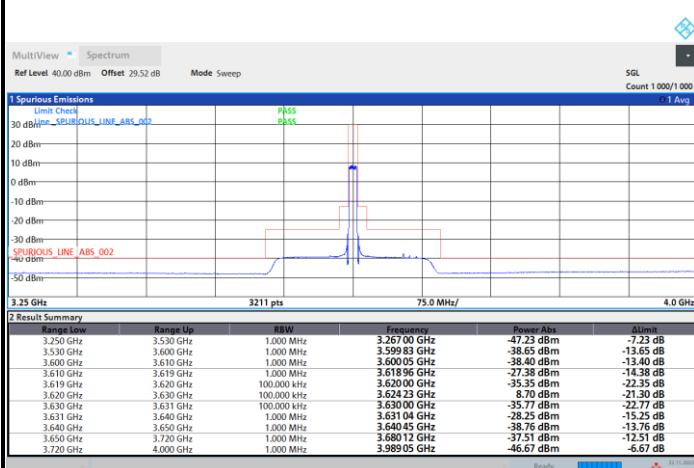
QPSK



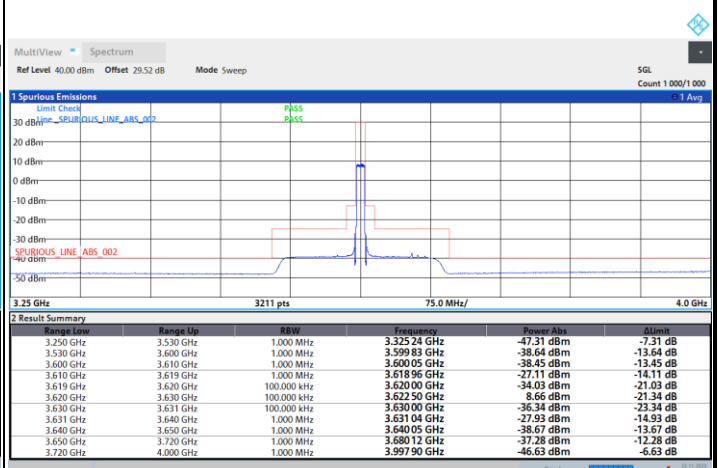
16QAM



64QAM



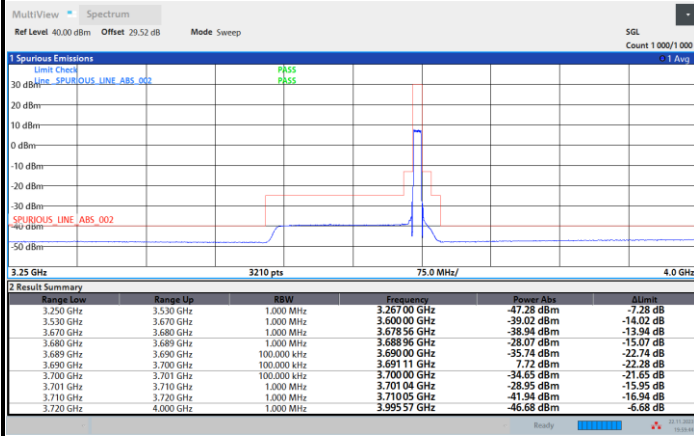
256QAM





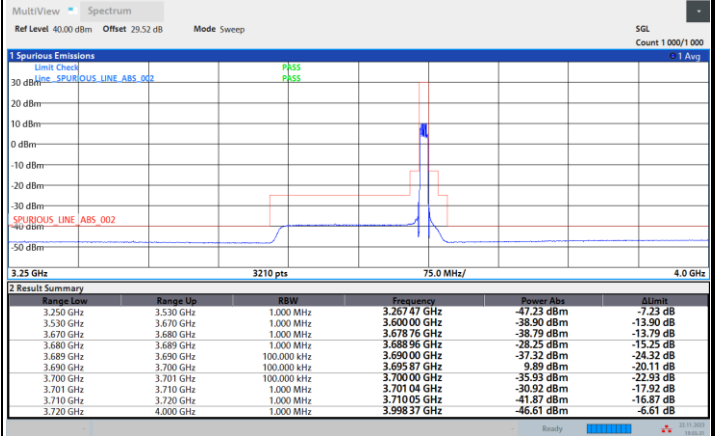
FR1 n48 / 10MHz / Highest Channel / MASK

QPSK



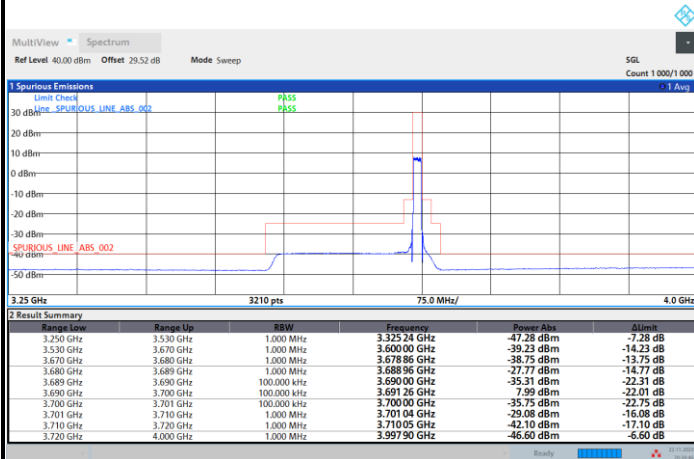
19:59:44 22.11.2023

16QAM



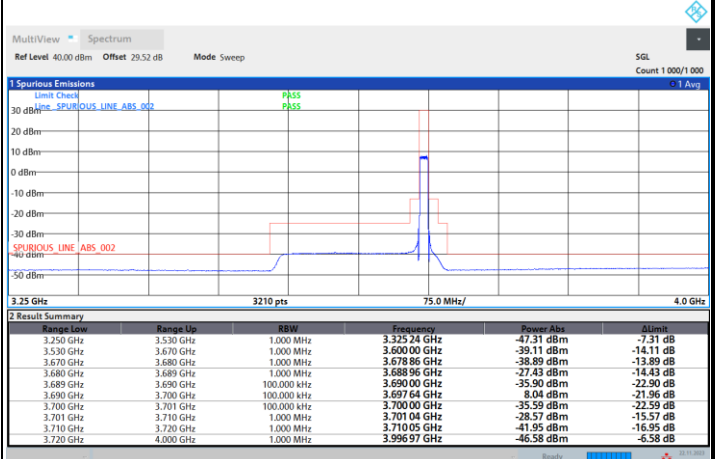
19:59:50 22.11.2023

64QAM



20:00:47 22.11.2023

256QAM

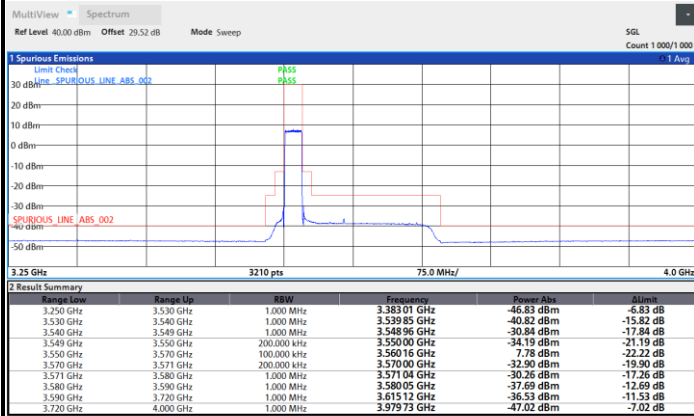


20:01:03 22.11.2023



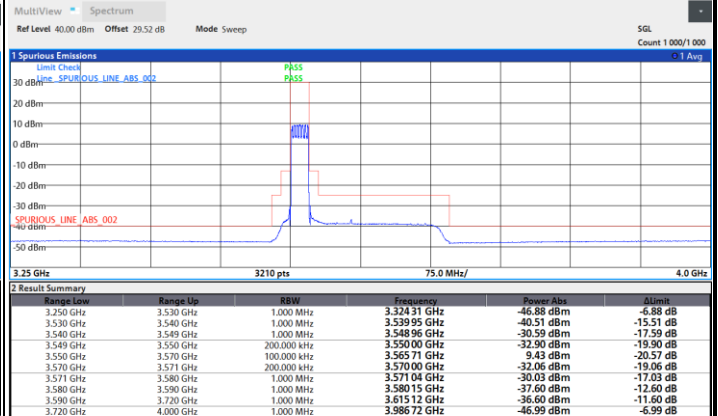
FR1 n48 / 20MHz / Lowest Channel / MASK

QPSK



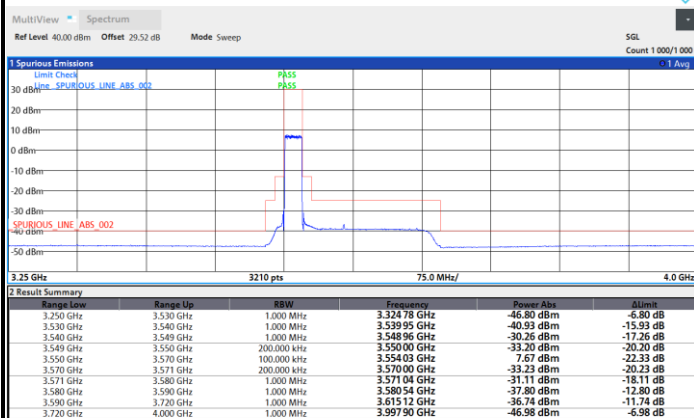
09:54:03 24.11.2023

16QAM



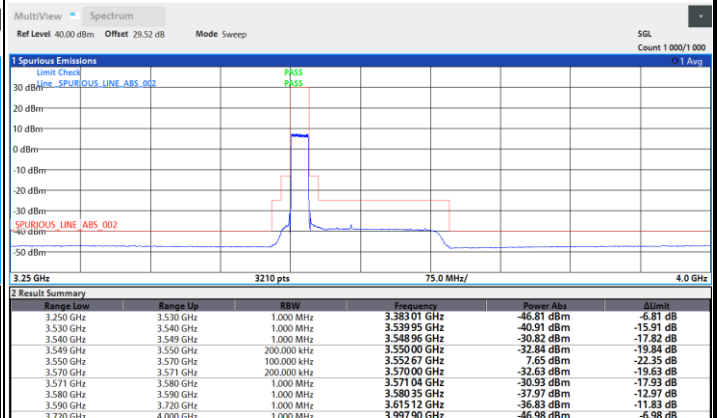
10:01:03 24.11.2023

64QAM



10:08:55 24.11.2023

256QAM

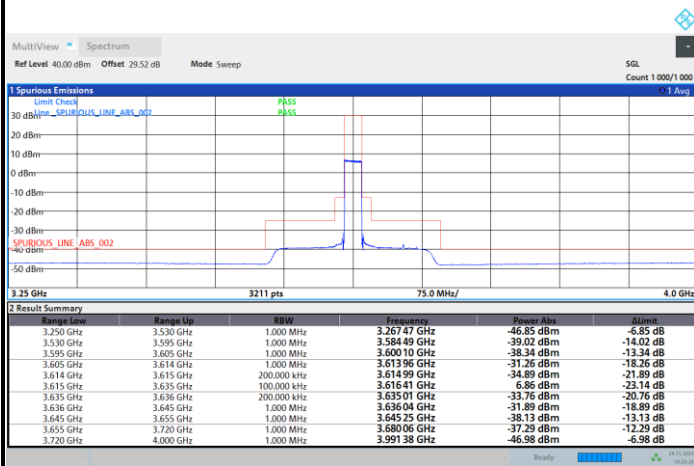


10:20:13 24.11.2023



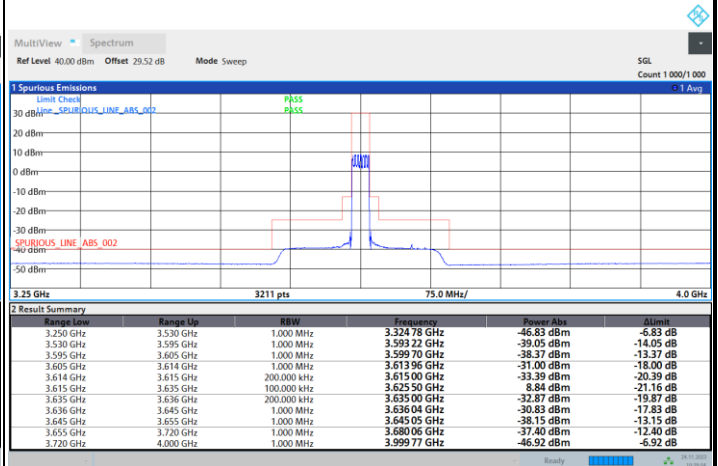
FR1 n48 / 20MHz / Middle Channel / MASK

QPSK



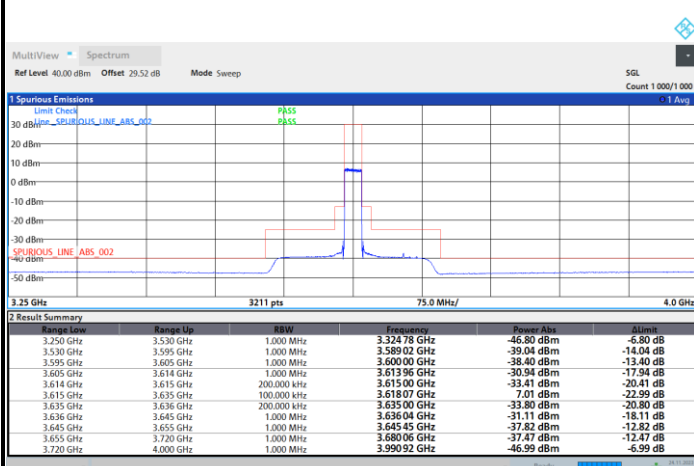
10:29:28 24.11.2023

16QAM



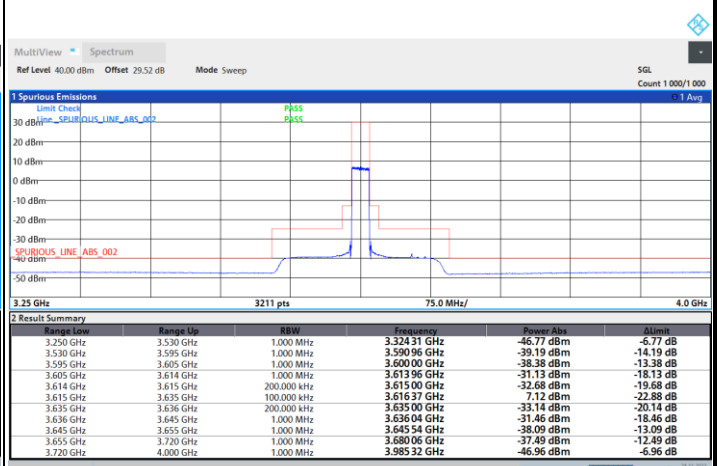
10:39:55 24.11.2023

64QAM



10:49:27 24.11.2023

256QAM

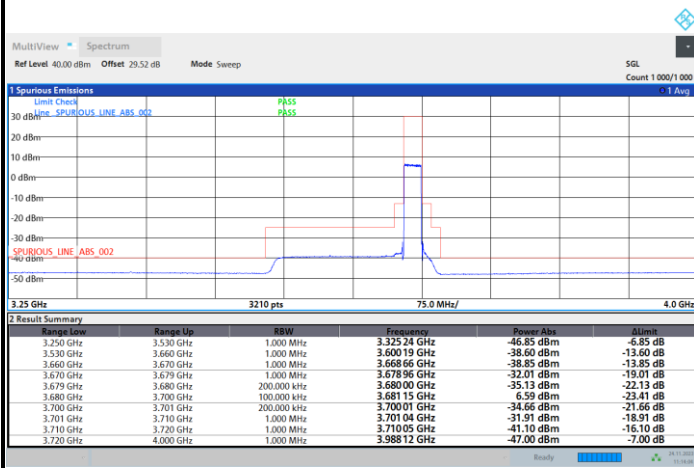


10:57:08 24.11.2023

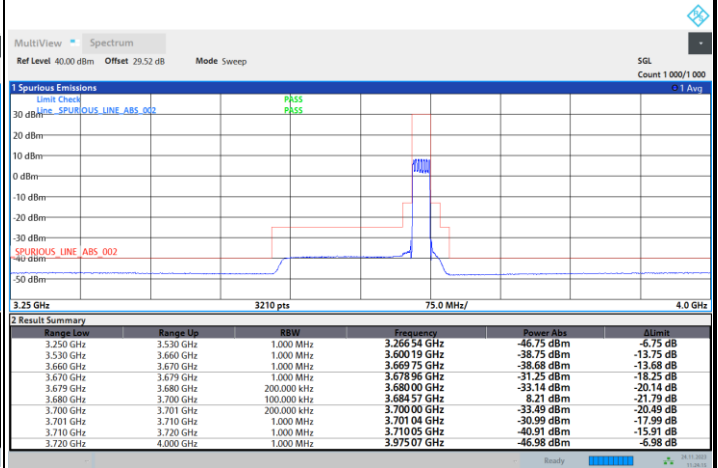


FR1 n48 / 20MHz / Highest Channel / MASK

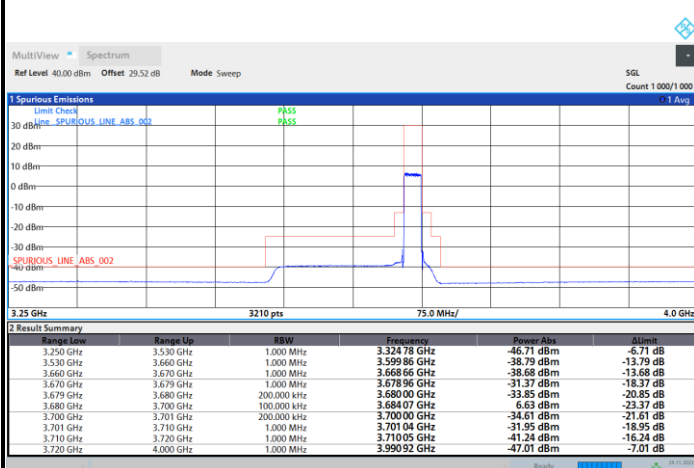
QPSK



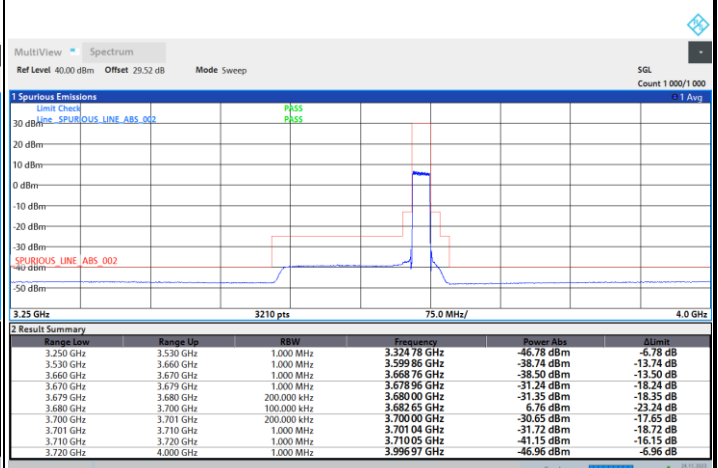
16QAM



64QAM



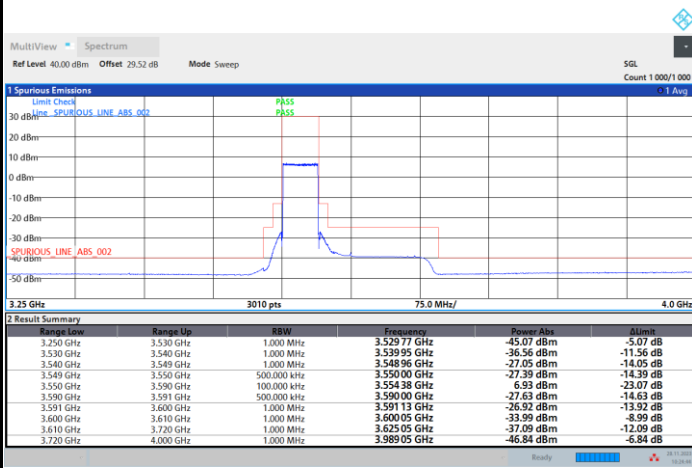
256QAM



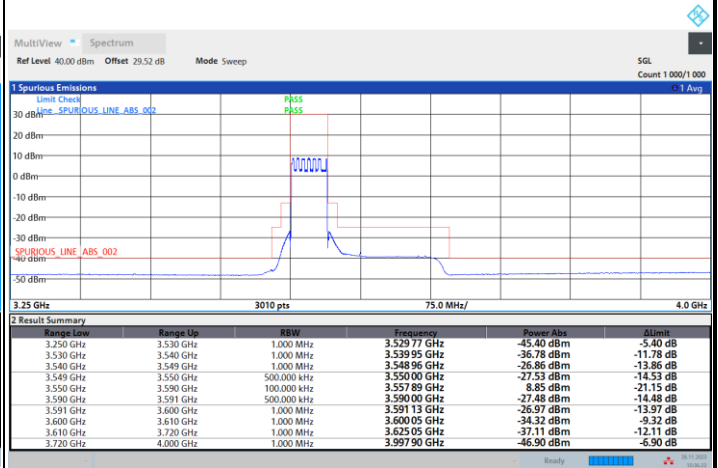


FR1 n48 / 40MHz / Lowest Channel / MASK

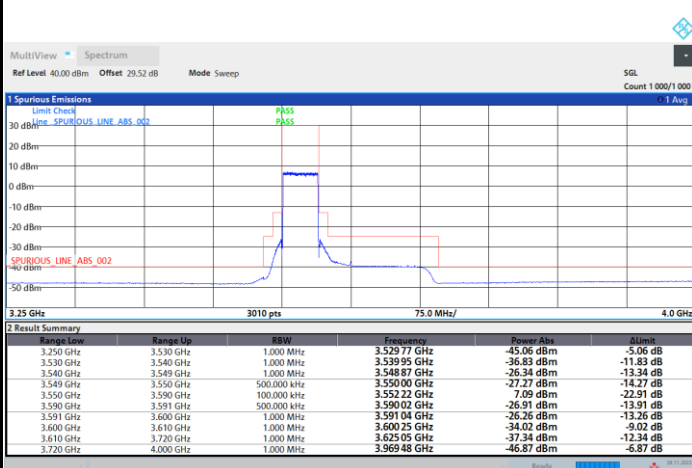
QPSK



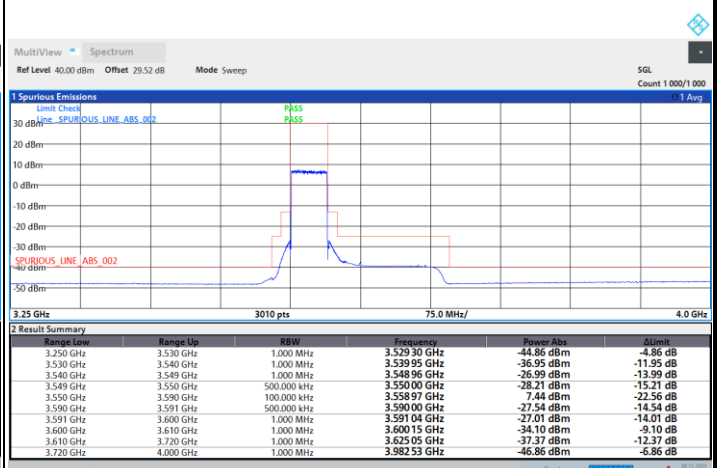
16QAM



64QAM



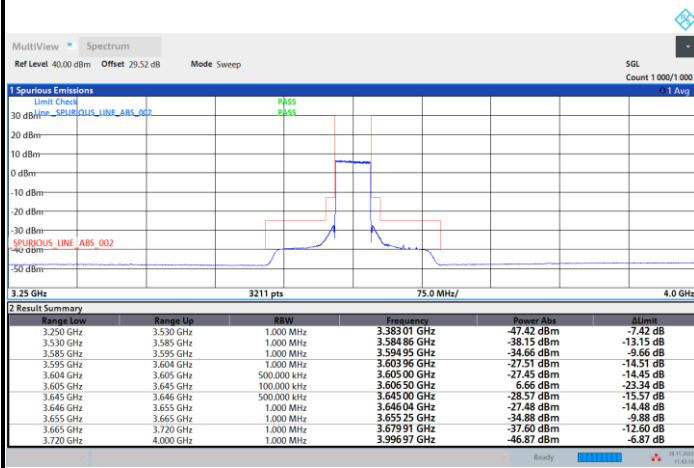
256QAM



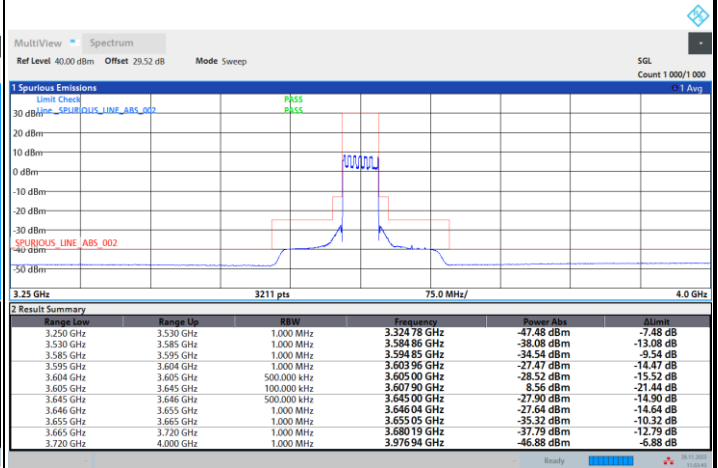


FR1 n48 / 40MHz / Middle Channel / MASK

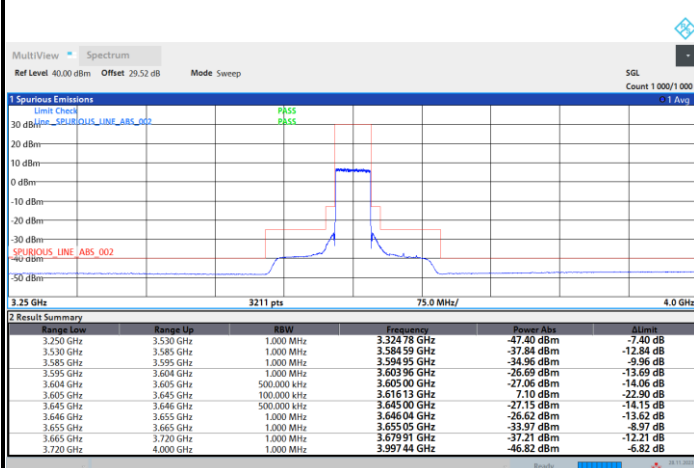
QPSK



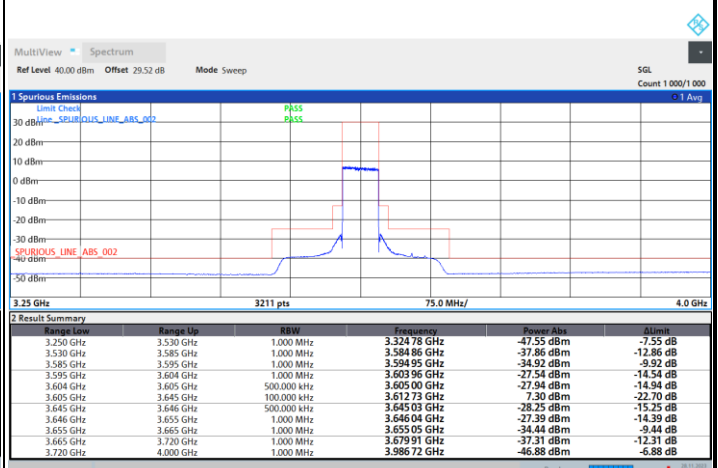
16QAM



64QAM



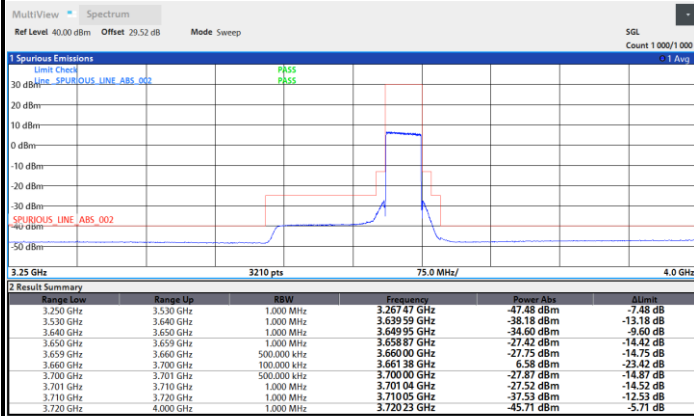
256QAM





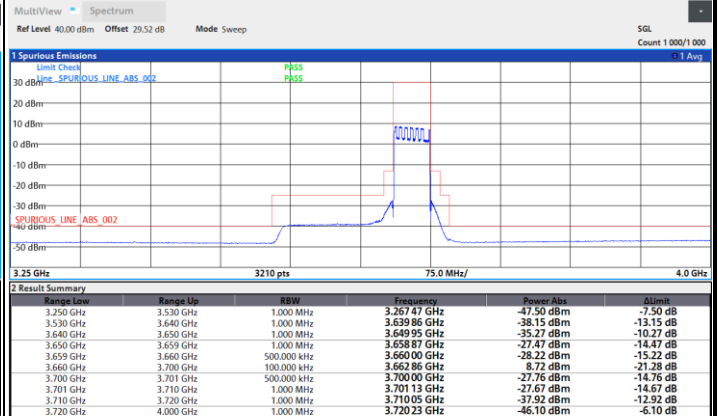
FR1 n48 / 40MHz / Highest Channel / MASK

QPSK



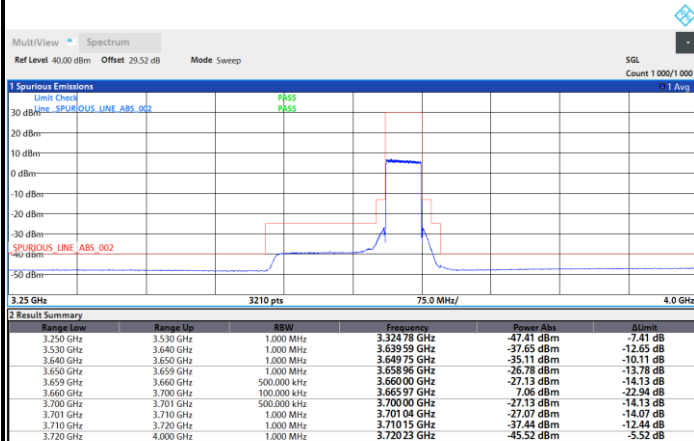
15:01:27 28.11.2023

16QAM



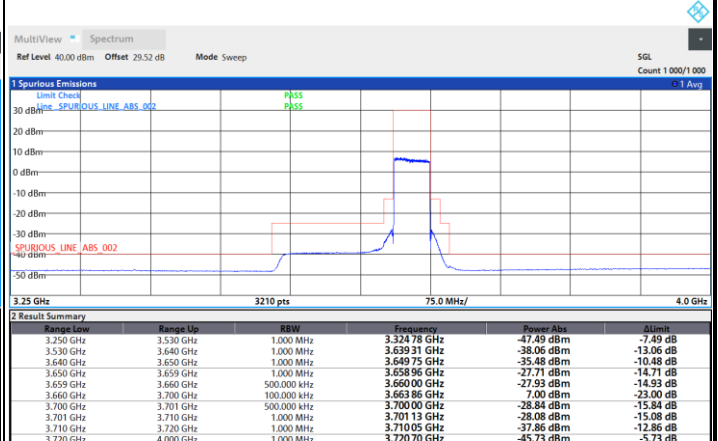
14:55:53 28.11.2023

64QAM



15:11:39 28.11.2023

256QAM



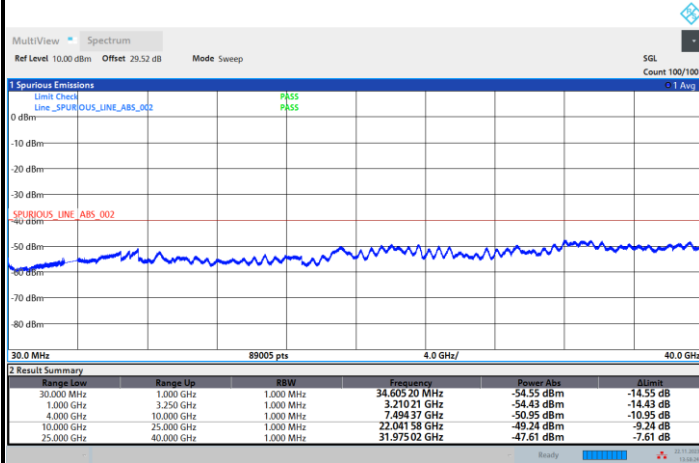
15:20:34 28.11.2023



Conducted Spurious Emission

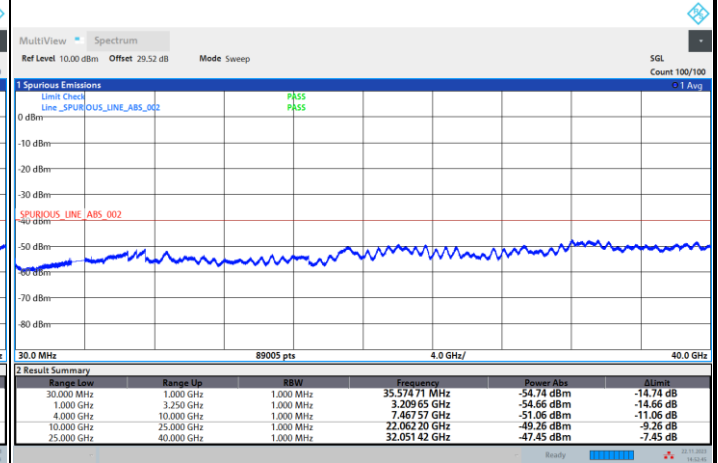
FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel



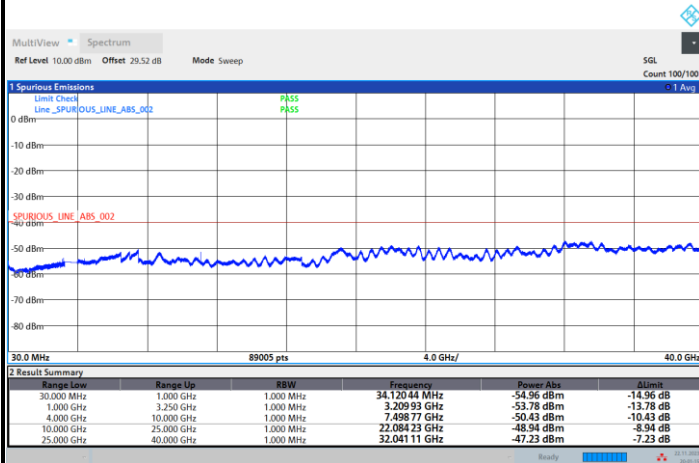
13:58:25 22.11.2023

Middle Channel



14:50:45 22.11.2023

Highest Channel

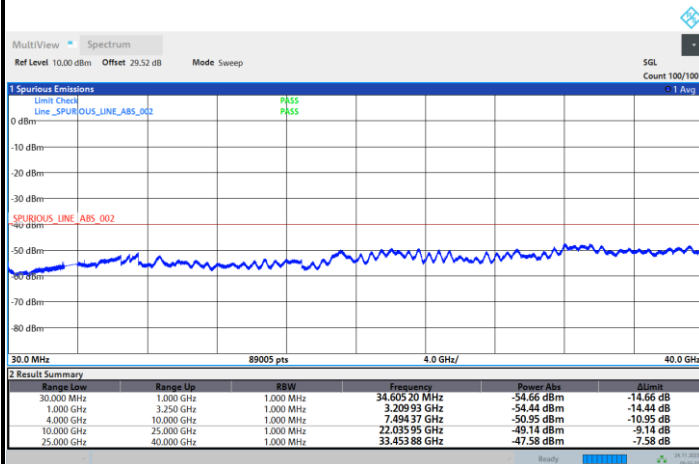


00:01:14 22.11.2023

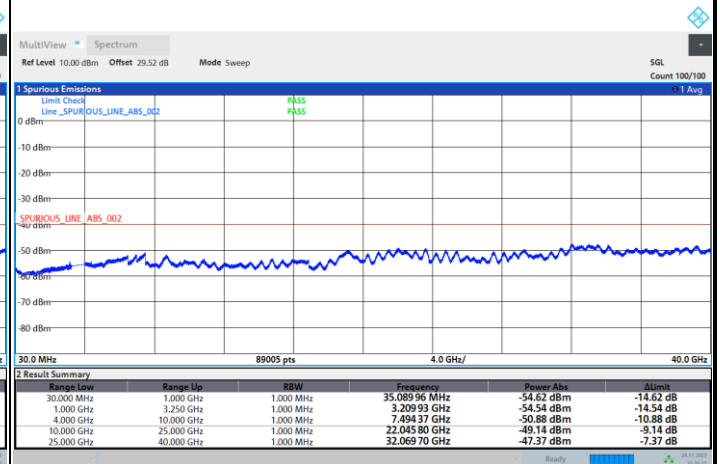


FR1 n48 / 20MHz / QPSK / CSE

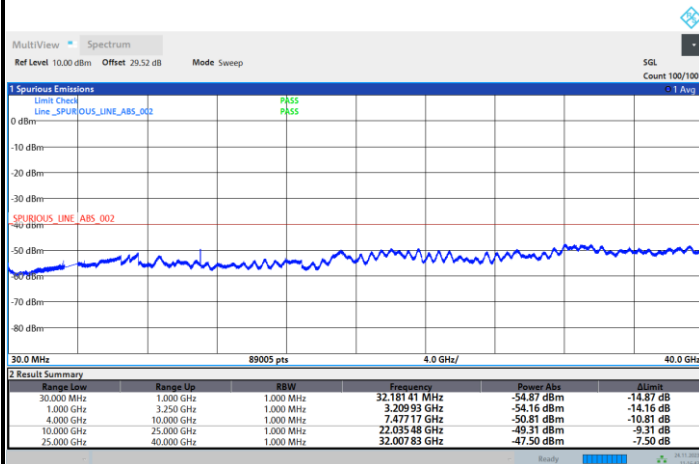
Lowest Channel



Middle Channel



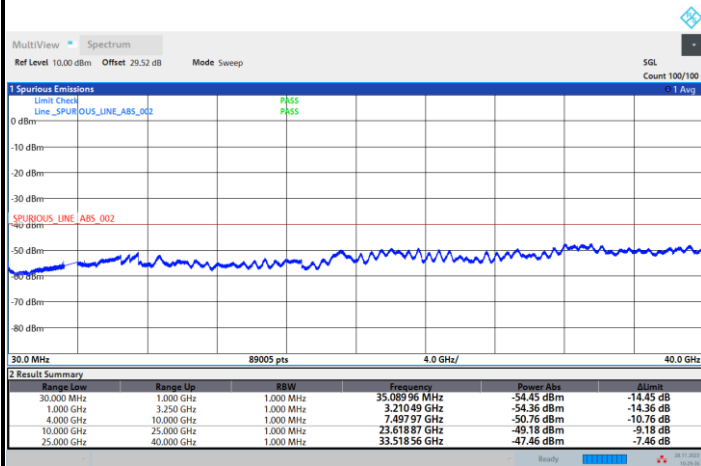
Highest Channel



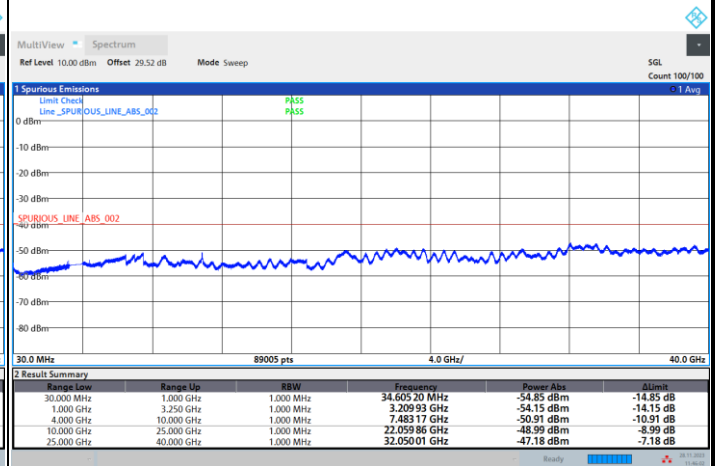


FR1 n48 / 40MHz / QPSK / CSE

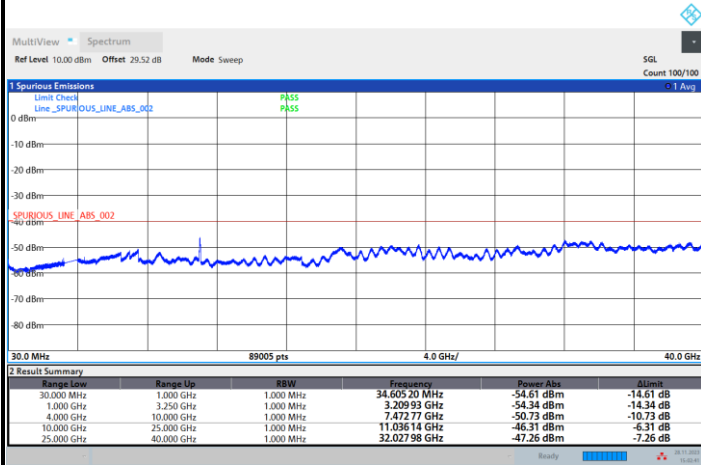
Lowest Channel



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	0.7724	PASS
40	Normal Voltage	0.3310	
30	Normal Voltage	0.3862	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.2207	
0	Normal Voltage	0.1103	
-10	Normal Voltage	0.1655	
-20	Normal Voltage	1.2690	
-30	Normal Voltage	0.2207	
20	Maximum Voltage	0.6069	
20	Normal Voltage	0.8828	
20	Minimum Voltage	1.0483	

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 4>

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	20.46	20.91	20.54	20.36	20.16	20.70		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Lowest CH	20.43	20.78	20.30	20.32	20.19	19.97		

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
BW	10MHz		20MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Lowest CH	43.98	44.43	44.06	43.88	43.68	44.22		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Lowest CH	43.95	44.30	43.82	43.84	43.71	43.49		
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	20.52	20.76	19.89	19.77	19.85	20.09		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	20.53	20.58	19.84	19.89	19.66	19.89		

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
BW	10MHz		20MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	44.04	44.28	43.41	43.29	43.37	43.61		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	44.05	44.10	43.36	43.41	43.18	43.41		
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	20.22	20.31	19.61	20.01	19.85	20.11		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Highest CH	20.14	20.27	19.79	19.53	19.89	19.81		

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel							
BW	10MHz		20MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Highest CH	43.74	43.83	43.13	43.53	43.37	43.63		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Highest CH	43.66	43.79	43.31	43.05	43.41	43.33		
Limit	47dBm/10MHz							
Result	PASS							

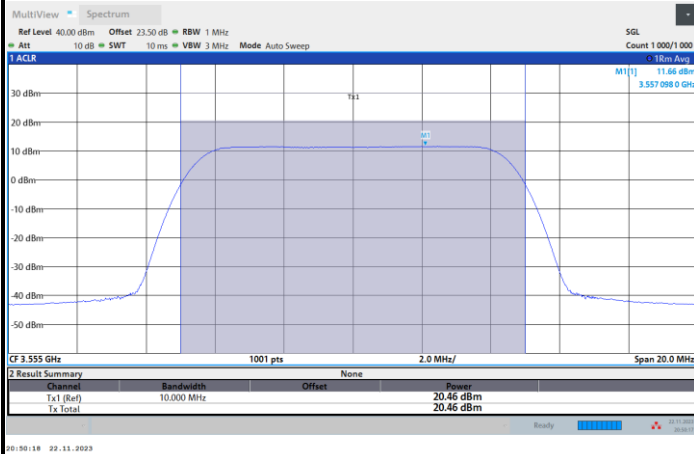
Note

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.

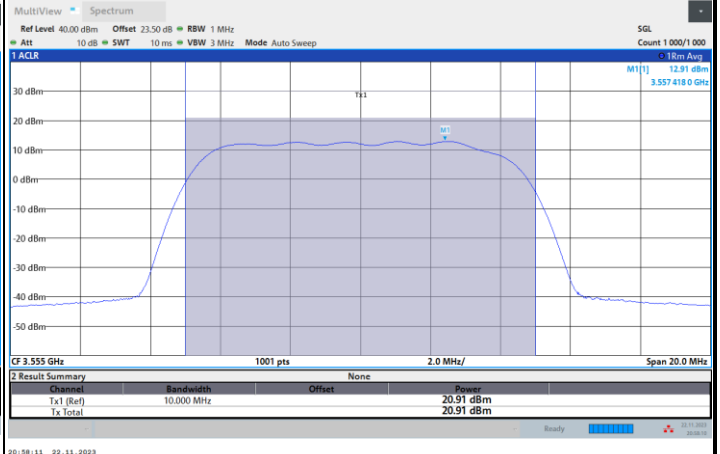


FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

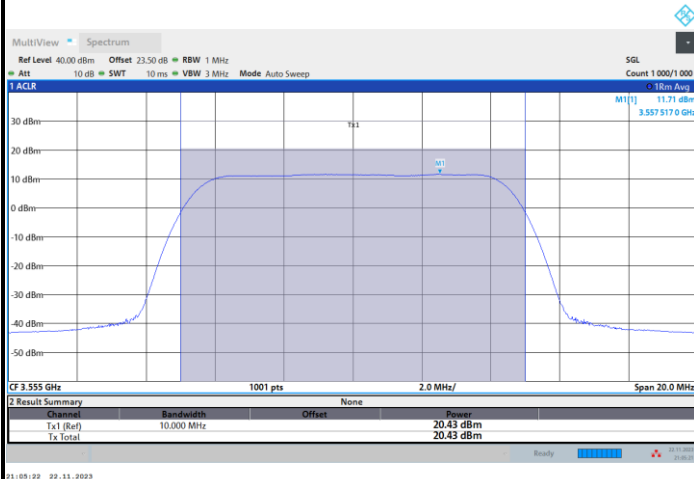
QPSK



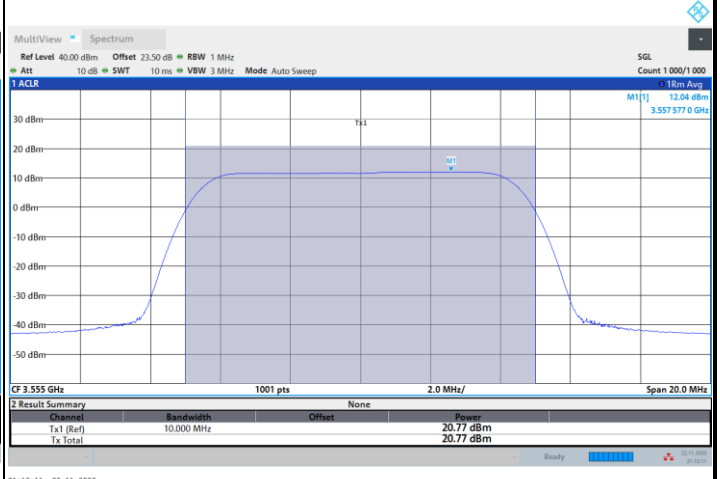
16QAM



64QAM



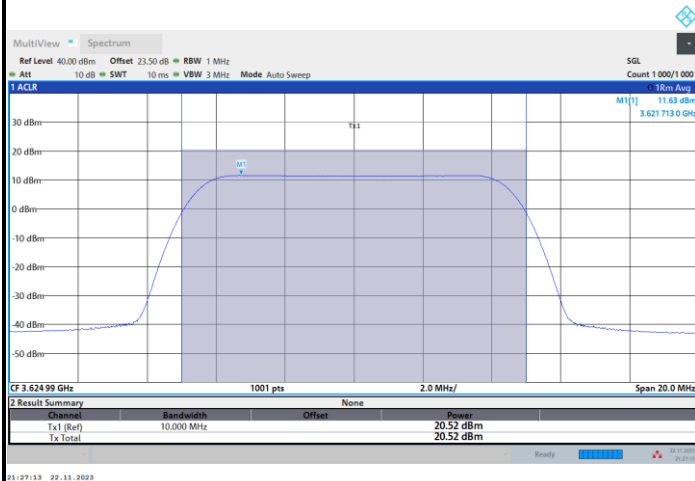
256QAM



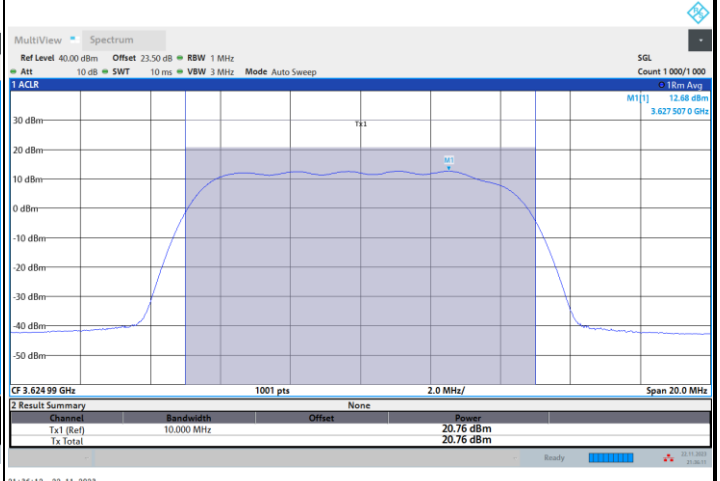


FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

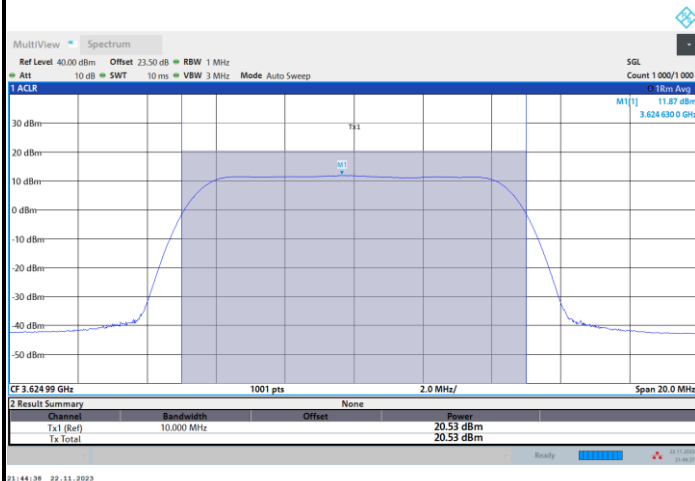
QPSK



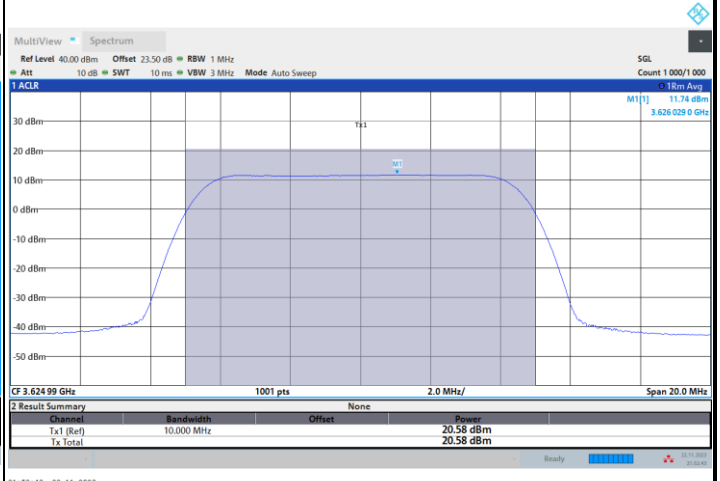
16QAM



64QAM



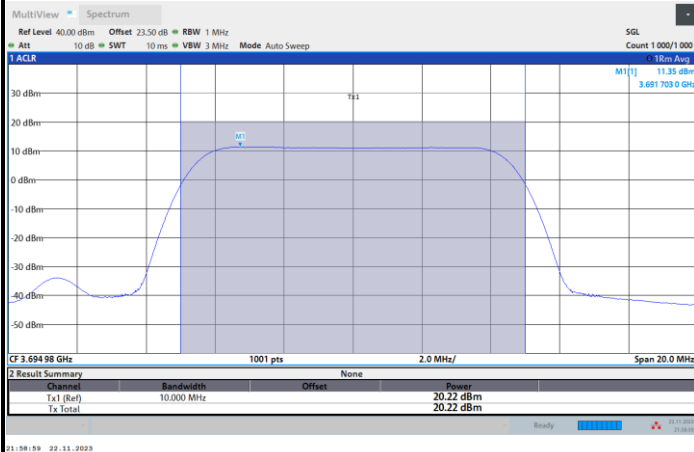
256QAM



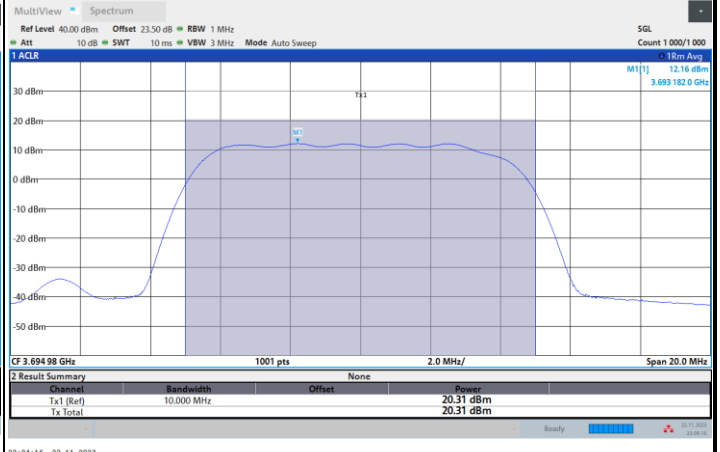


FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

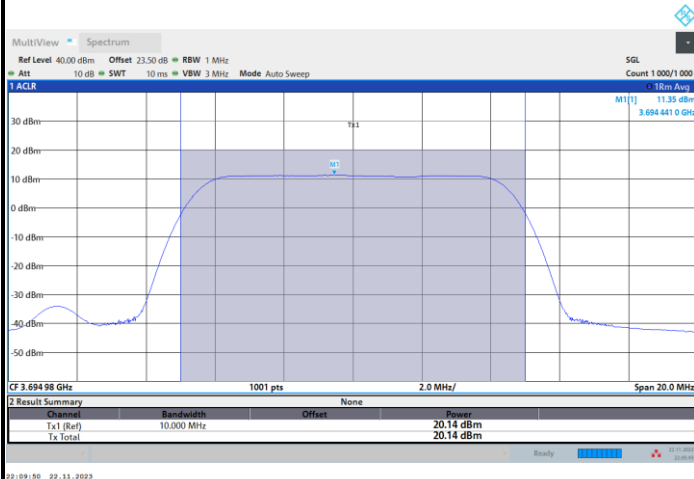
QPSK



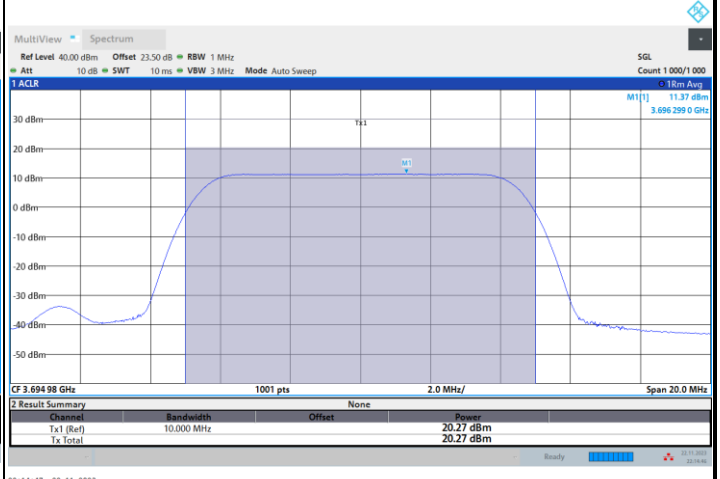
16QAM



64QAM



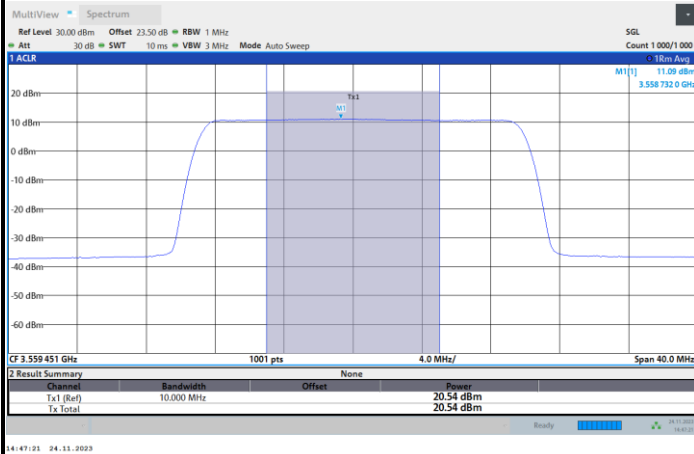
256QAM



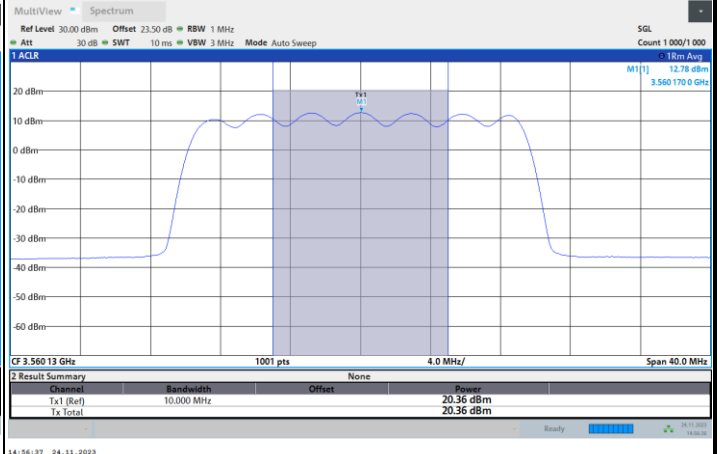


FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

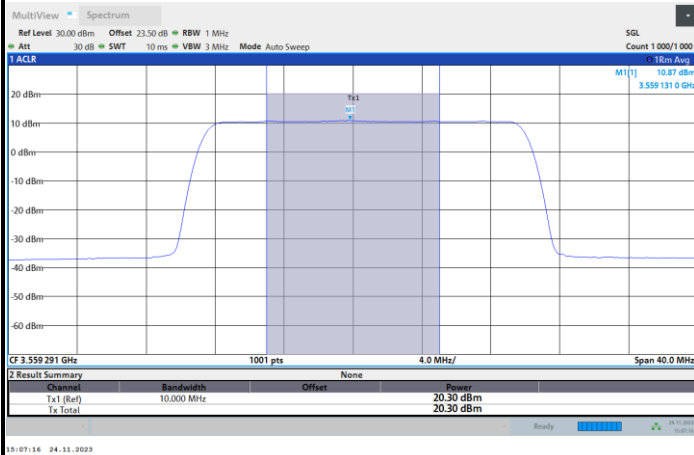
QPSK



16QAM



64QAM



256QAM

